

INTRODUCTION TO RADIUS

**Title V
Air Permit Application**

**New Jersey Department of
Environmental Protection**

(December 6, 2011)

Air Permit Application

- RADIUS software available at:
 - <http://www.state.nj.us/dep/aqpp/radius.html>
 - Use for non-confidential information
- Save RADIUS application on CD and send to DEP
- Helplines at:
 - <http://www.state.nj.us/dep/aqpp/contact.html>

RADIUS Forms

- Used for all applications
 - Major and Non-major facilities
 - New and modified sources
 - Use latest version of RADIUS
- For Operating Permit Renewals with attachment at:
 - <http://www.state.nj.us/dep/aqpp/applying.html>
- Except Non-Technical Amendments
 - <http://www.state.nj.us/dep/aqpp/applying.html>



Confidential Information

- Need two applications
 - RADIUS to include non-confidential info only
 - Complete Paper Application
 - Consistent with N.J.A.C. 7:27-1
 - <http://www.state.nj.us/dep/aqm/Sub1.pdf>
- Emission Info may not be confidential
- All info considered confidential until decision of confidentiality is made

Application Information

N.J.A.C. 7:27-1

- See N.J.A.C. 7:27-1 (Definitions)
- Includes, but not limited to,
 - Facility Name and location
 - Emission type and rate
 - Frequency and duration of release
 - Maximum production rate
 - Emission estimation methods

Pre-Application Information

- Need ID# (or PI#)
 - Use form AIMS-099A
- Need PIN code
 - Use form AIMS-099B
- Forms available at:
 - <http://www.state.nj.us/dep/aqpp/applying.html>

Certification

- Either electronic or paper
- Electronic preferred

- Need PIN code

- Use form AIMS-099B

Paper certification at:

- <http://www.state.nj.us/dep/aqpp/applying.html>



Application Completeness

- Administrative Check

- Errors

- Warnings

- Instructions

- To be updated soon

- <http://www.state.nj.us/dep/aqpp/applying.html>



Additional Information

- Compliance Demonstration
- Submit information electronically whenever possible
 - Attach files directly to RADIUS forms, or
 - Include separately on the CD



APPLICATION EXAMPLE

- **INTRODUCTION TO RADIUS**

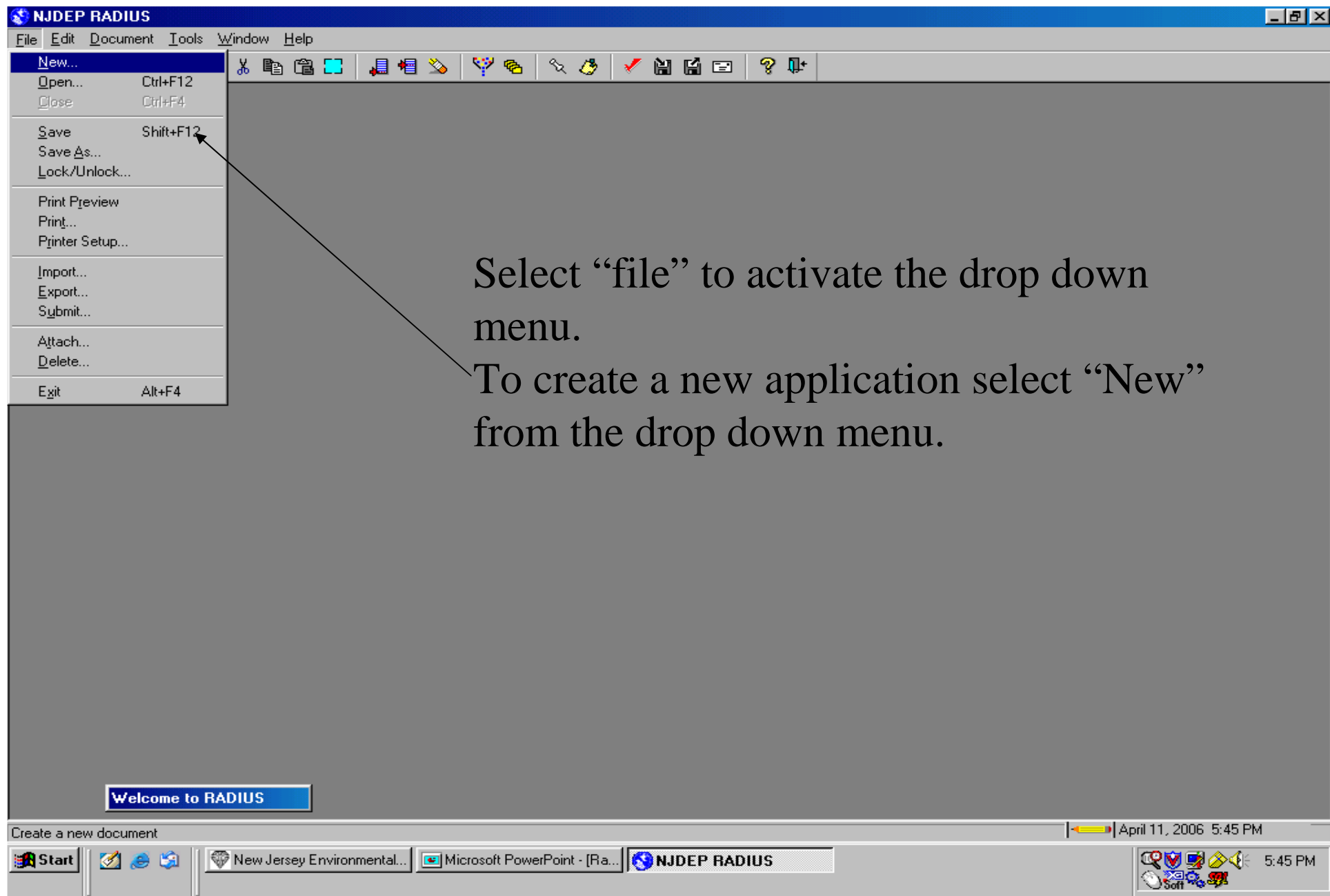
Title V

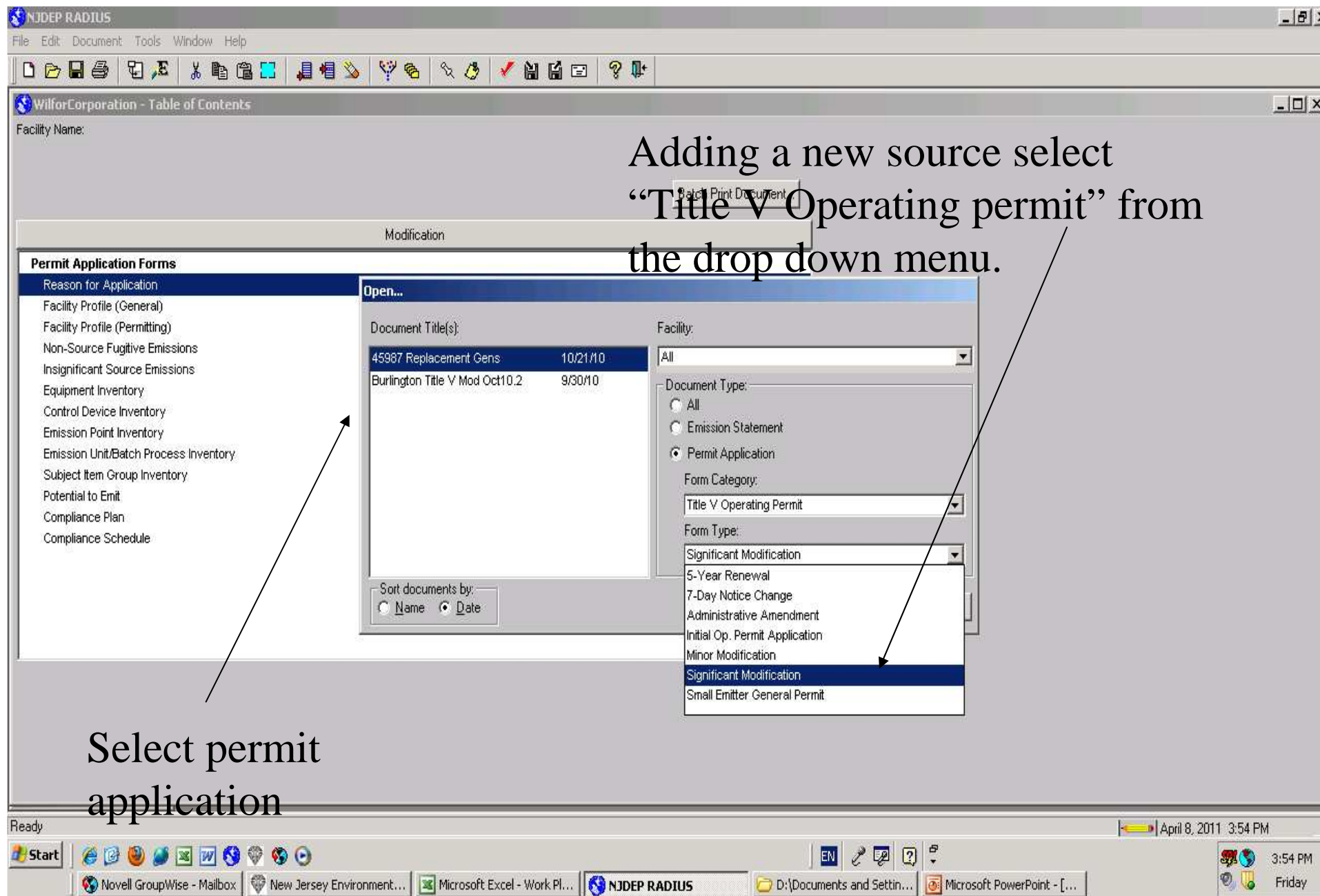
- **EXAMPLE OF AN
EMISSION UNIT**

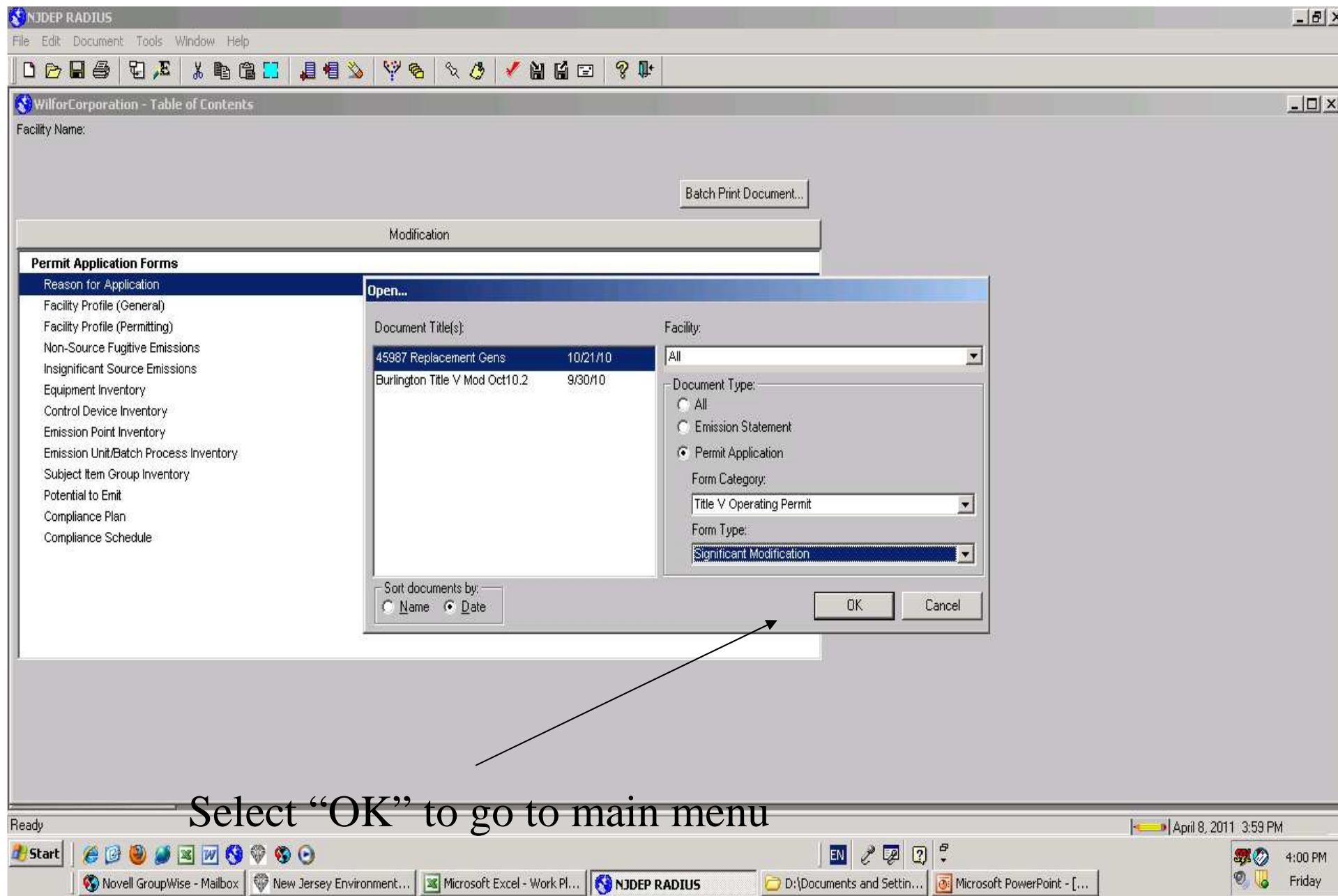


Example...Adding Equipment

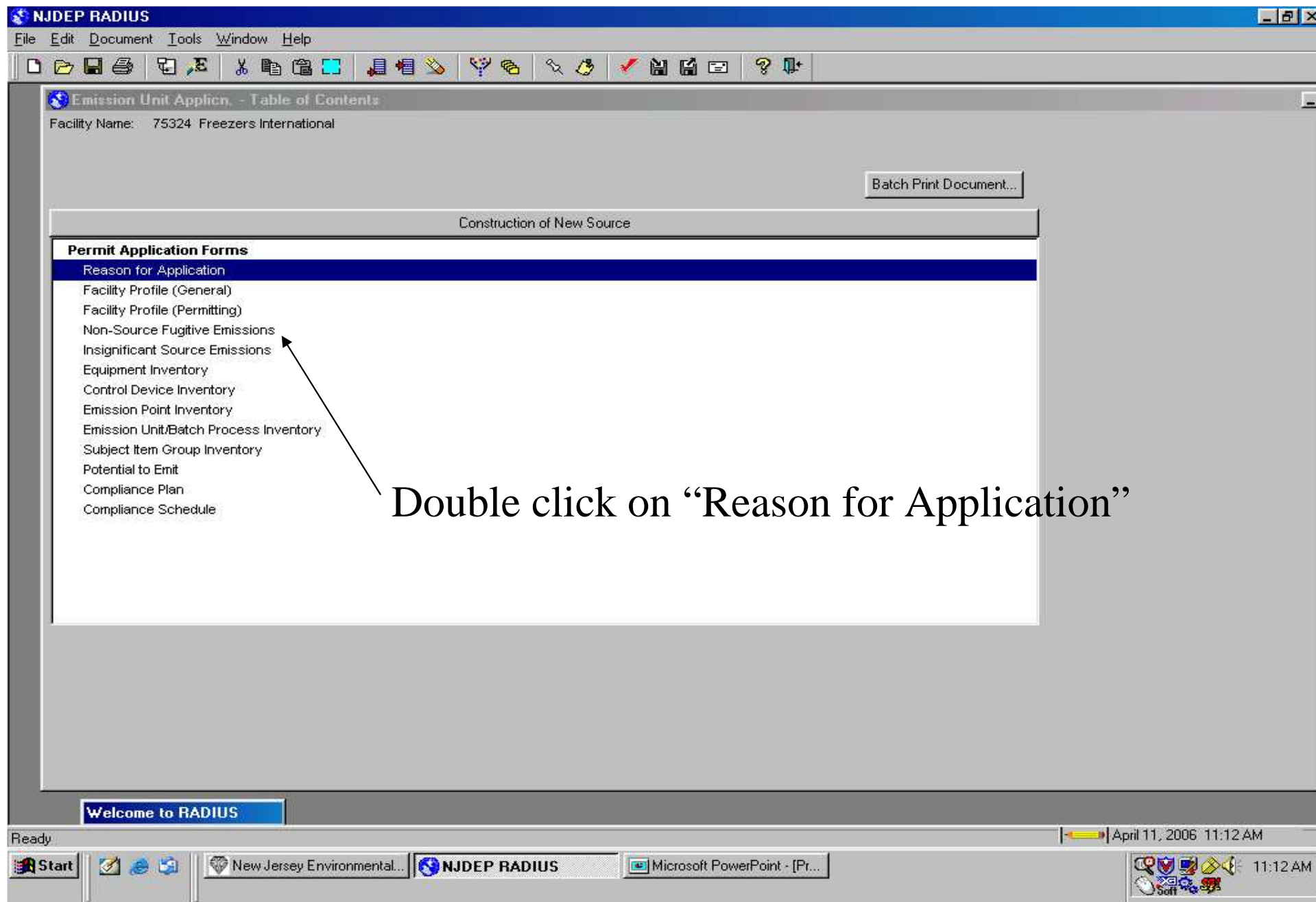
- Boiler
- 280 MMBTU/hr heat input
- Fuel Burned
 - Natural gas
 - #2 fuel oil (backup)
- Hours of Operation: 4000 hrs/yr
- One 10,000 Fuel Oil Storage Tank







Select "OK" to go to main menu



NJDEP RADIUS

File Edit Document Tools Window Help

WilforCorporation - Reason for Application

Facility: 19409 WilforCorporation

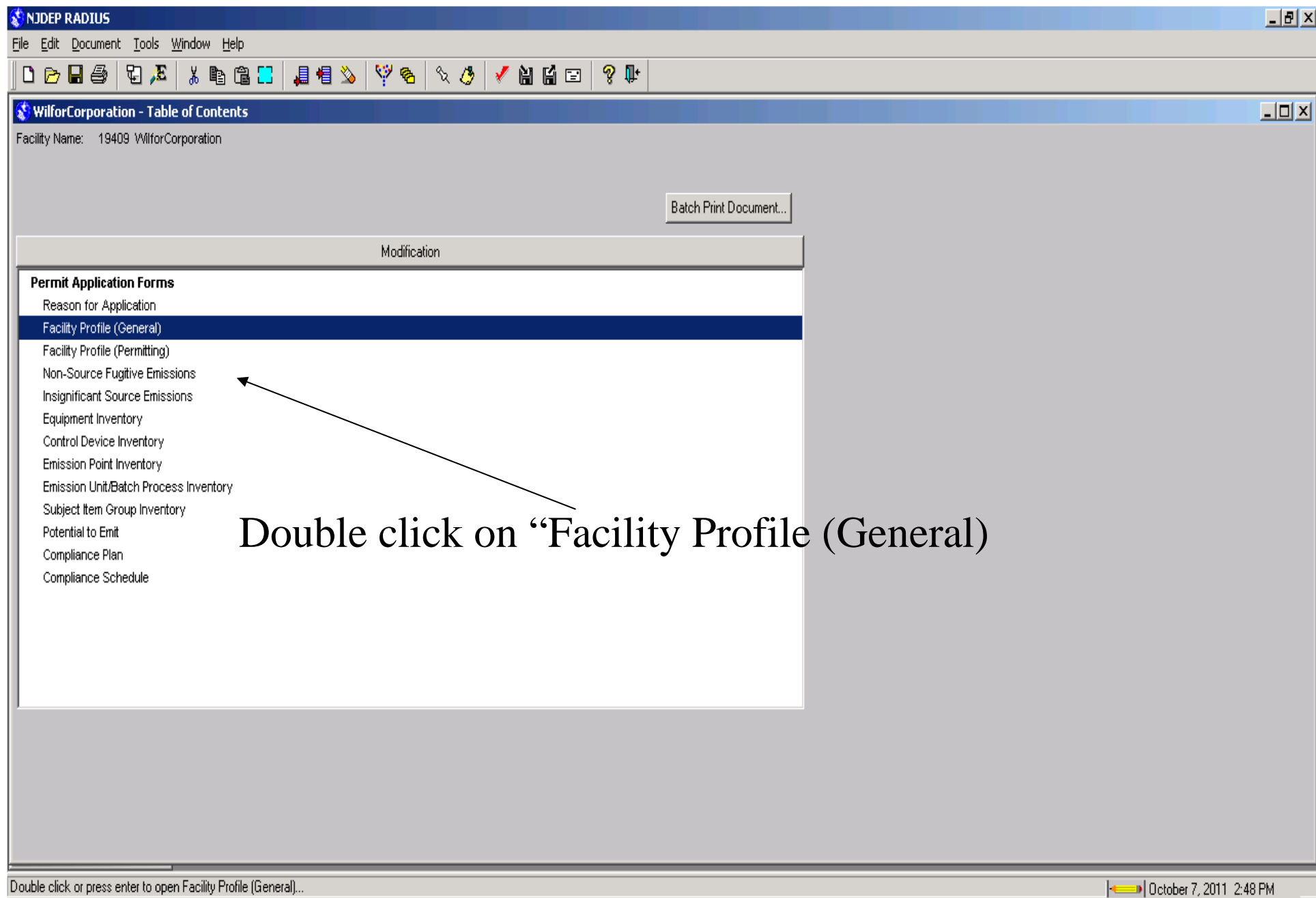
Reason for Application

Permit Class: BOP Number: 100001

Reason for Application:
Installation of one 280 MMBTU/hr heat input burning #2 Fuel Oil and Natural Gas
One CD - NSR to limit the emissions from the boiler.
One 10,000 Storage Tank Storing fuel oil.

Enter reasons + any other relevant information.

Ready | October 7, 2011 2:38 PM



NJDEP RADIUS

File Edit Document Tools Window Help

WilforCorporation - Facility Profile (General)

Facility ID: 19409 Facility Name: WilforCorporation

Location and Industry Information Contact Information

Contact Type: Owner (Current Primary)

Name: Wilforcorporation Organization: General Services
Title: Owner Org. Type: Corporation
Phone: () - x NJ EIN:
Fax: () - x Mailing Address: 5 Thoroughbred Fare
Other: () - x
Type:
Email: Tinton Falls NJ 07724 -

Copy To Clear Contact

Copy Profile

Select "Owner" from the drop down menu

Select "contact information" from the drop down menu

Ready | October 7, 2011 3:32 PM

NJDEP RADIUS

File Edit Document Tools Window Help

WilforCorporation - Facility Profile (General)

Facility ID: 19409 Facility Name: WilforCorporation

Location and Industry Information Contact Information

Contact Type:

- Responsible Official
- Owner (Current Primary)
- Owner (Former)
- Potential Buyer
- Registered Agent
- Regulation Officer
- Responsible Official**
- Responsible Party

Name: Registered Agent Organization: Freezers International

Title: Regulation Officer Org. Type:

Phone: Responsible Official NJ EIN:

Fax: () - x Mailing Address: P.O. Box 1234

Other: () - x

Type:

Email: freddy@freeze.com Patterson NJ 31234 -

Copy To Clear Contact

Copy Profile

Select "Responsible Official" - mandatory

Ready | October 7, 2011 3:44 PM

NJDEP RADIUS

File Edit Document Tools Window Help

WilforCorporation - Facility Profile (General)

Facility ID: 19409 Facility Name: WilforCorporation

Location and Industry Information Contact Information

Contact Type: Responsible Official

Name: Freddy Outlaw Organization: Freezers International

Title: Senior Vice President Org. Type:

Phone: (732) 234-1238 x NJ EIN:

Fax: () - x Mailing Address: P.O. Box 1234

Other: () - x

Type:

Email: freddy@freeze.com

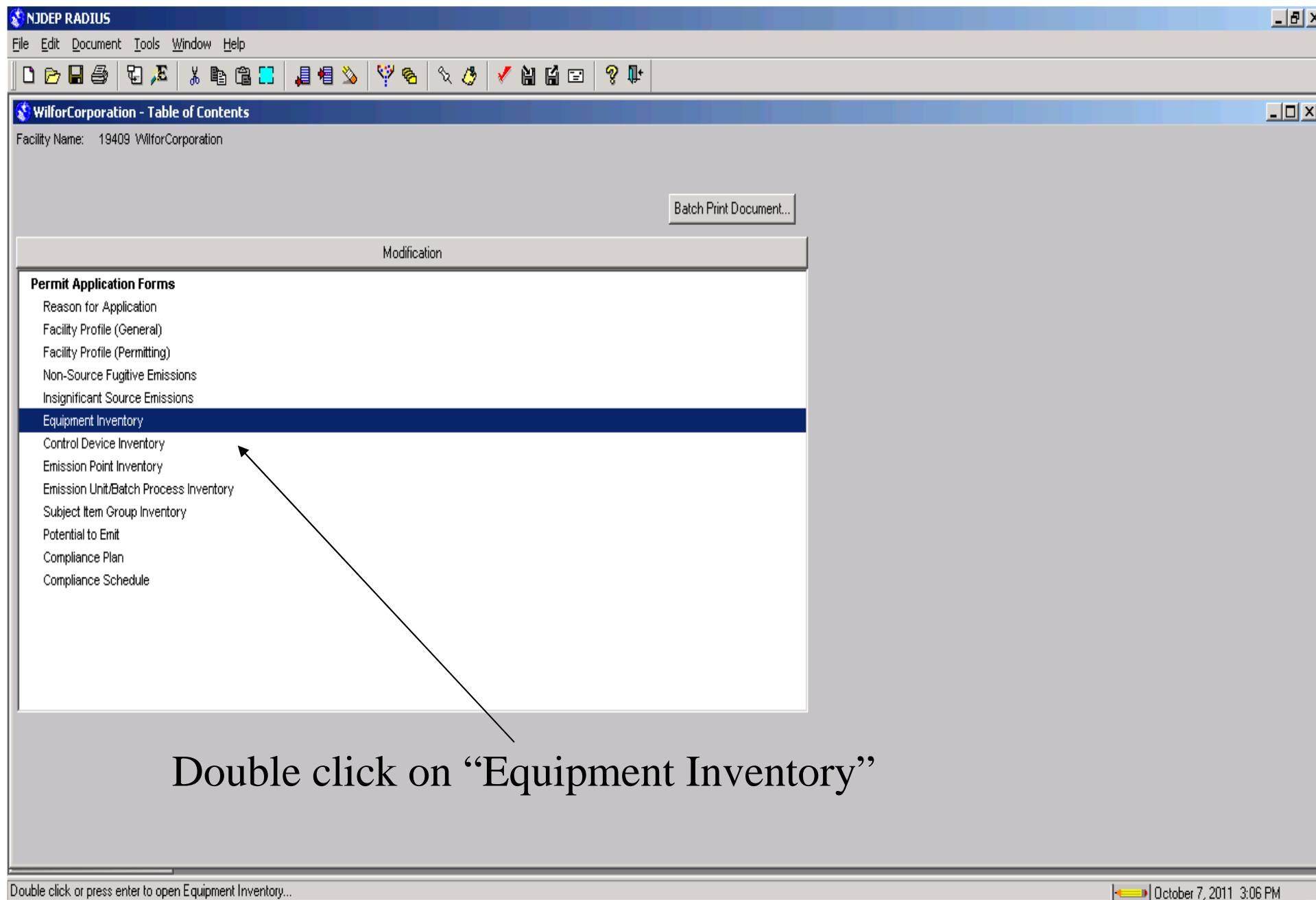
Patterson NJ 01234 -

Copy To Clear Contact

Copy Profile

Select "Responsible Official" - mandatory

Ready October 7, 2011 3:04 PM



NJDEP RADIUS

File Edit Document Tools Window Help

WilforCorporation - Equipment Inventory

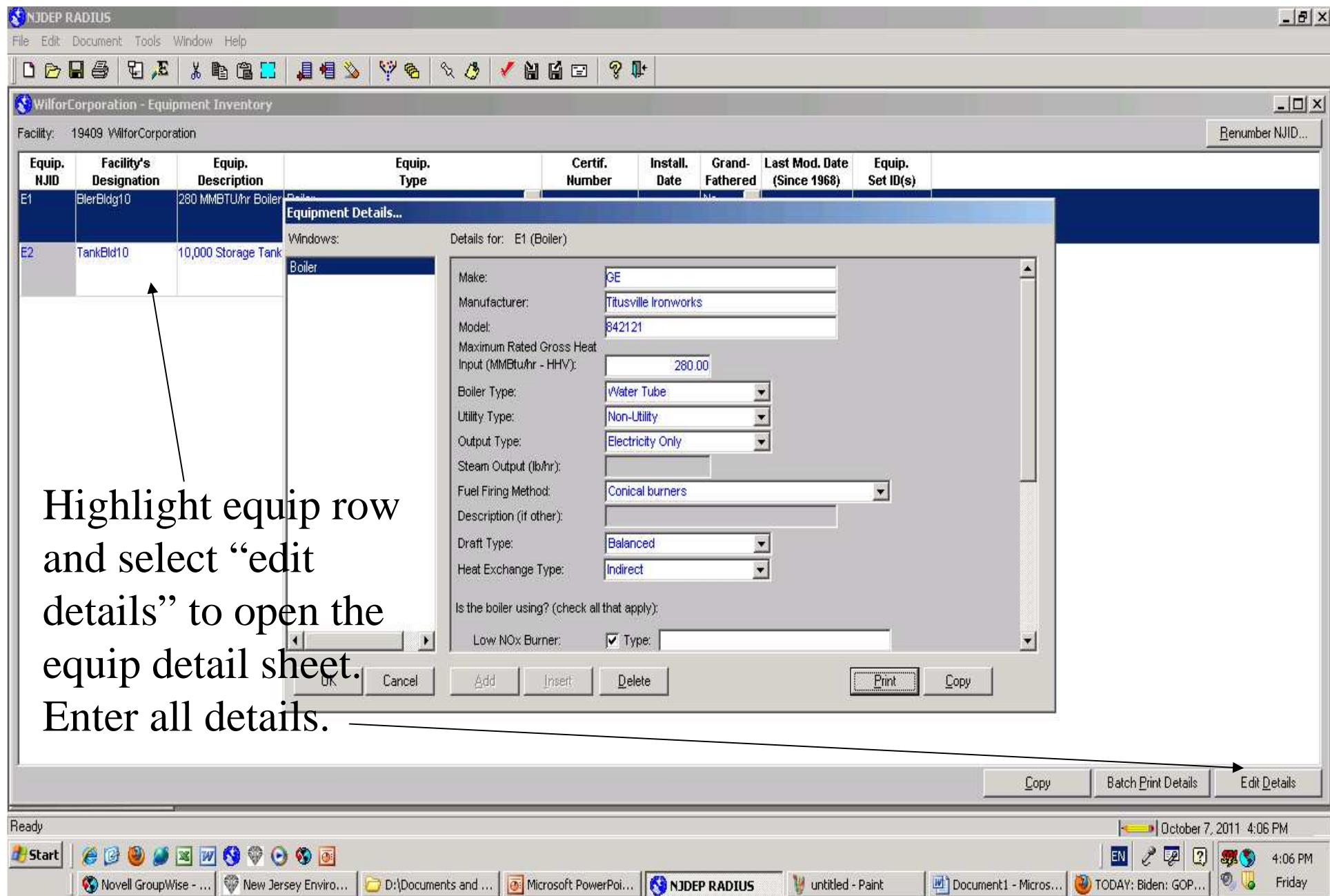
Facility: 19409 WilforCorporation Renumber NJID...

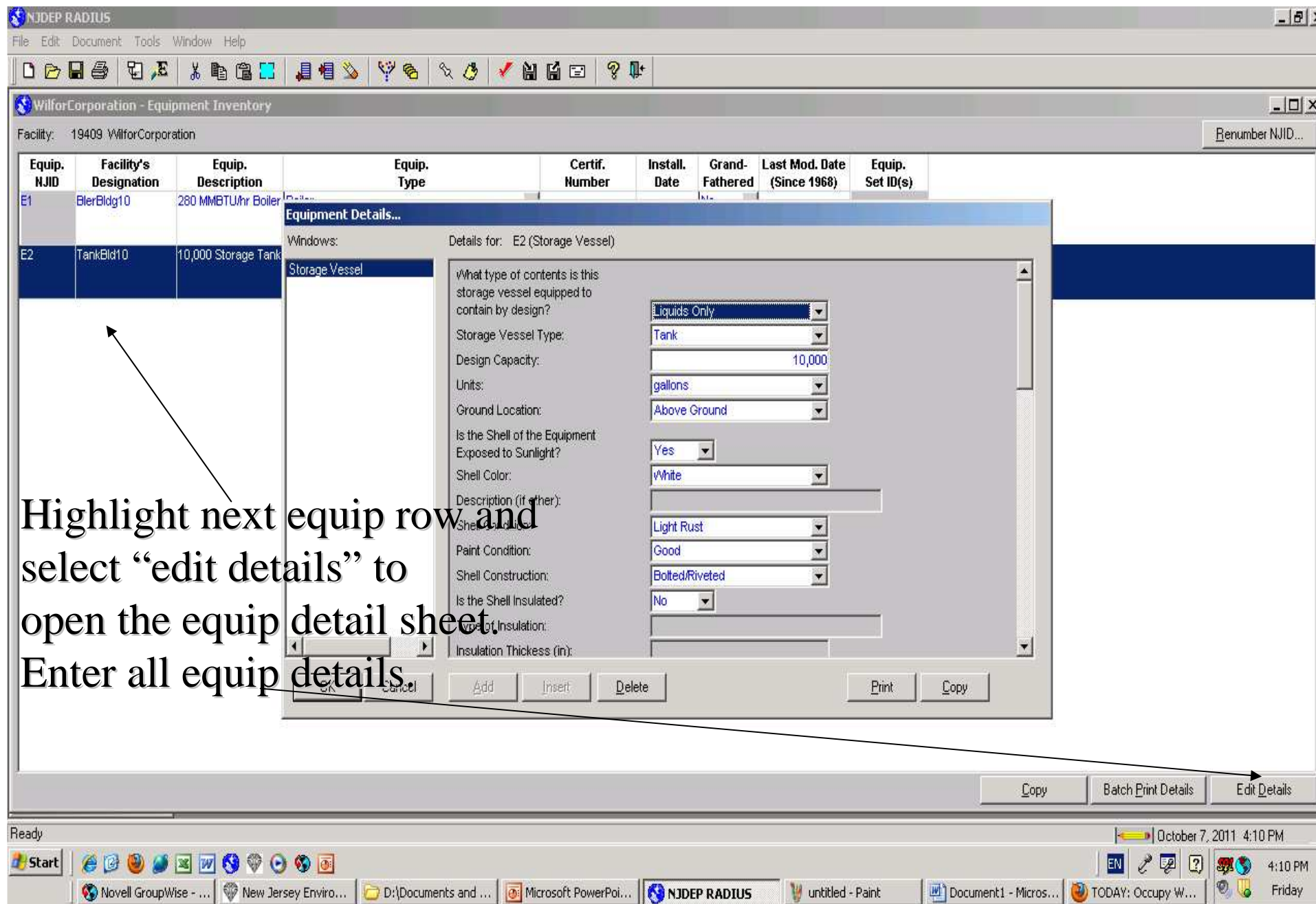
Equip. NJID	Facility's Designation	Equip. Description	Equip. Type	Certif. Number	Install. Date	Grand-Fathered	Last Mod. Date (Since 1968)	Equip. Set ID(s)
E1	Bldg10	280 MMBTU/hr Boiler	Boiler			No		
E2	TankBld10	10,000 Storage Tank	Storage Vessel			No		

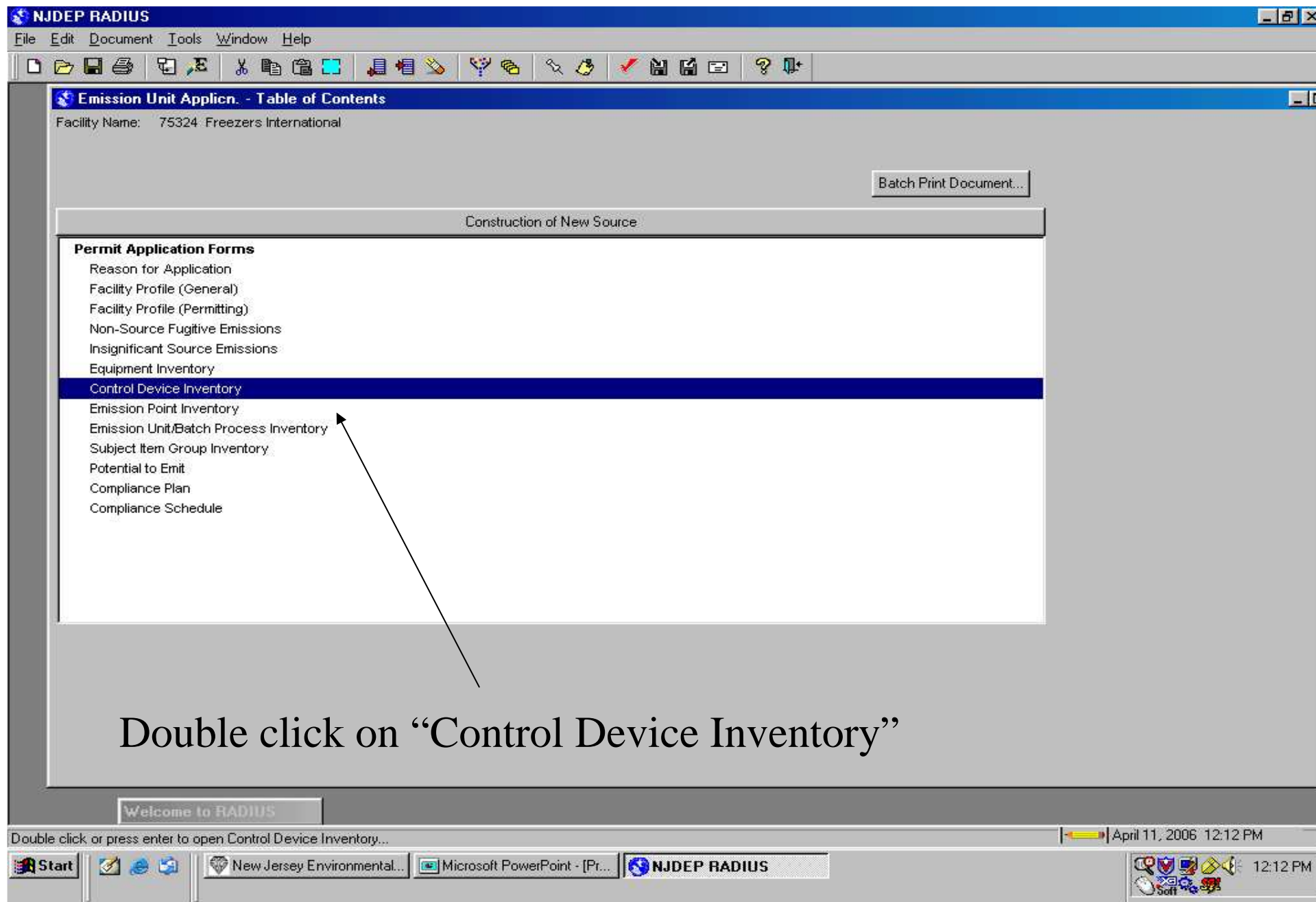
The application adds two pieces of equipment.
Enter all required information.

Copy Batch Print Details Edit Details

Ready October 7, 2011 3:52 PM







NJDEP RADIUS

File Edit Document Tools Window Help

WilforCorporation2011 - Control Device Inventory

Facility: 19409 WilforCorporation

Renumber NJID...

CD NJID	Facility's Designation	CD Description	CD Type	Install. Date	Grand-Fathered	Last Mod. Date (Since 1968)	CD Set ID
CD1	RTO- BLDG #2	One RTO - BLDG #2 the RTO unit ca	Oxidizer (Thermal)		No		

Control device is one RTO
Canister Regenerative Thermal Oxidizer.

Copy Batch Print Details Edit Details

Save current document November 18, 2011 11:37 AM

Start

New Jersey Enviro... Microsoft Excel - W... D:\Documents and ... F:\William\Enforce... Novell GroupWise - ... NJDEP RADIUS Microsoft PowerPoi... Document1 - Micro... 11:37 AM Friday

NJDEP RADIUS

File Edit Document Tools Window Help

WillforCorporation2011 - Control Device Inventory

Facility: 19409 WillforCorporation

Renumber NJID...

CD NJID	Facility's Designation	CD Description	CD Type	Install. Date	Grand-Fathered	Last Mod. Date (Since 1968)	CD Set ID
CD1	NSR- BLDG #2	One NSR - BLDG #2	Oxidizer (Thermal)		No		

Control Device Details...

Windows: Oxidizer (Thermal)

Details for: CD1 (Oxidizer (Thermal))

Make: GE-2055MX

Manufacturer: GE

Model: SX2012

Minimum Chamber Temperature (°F): 1500.0

Minimum Residence Time (sec): 0.50

Fuel Type: #2 fuel oil

Description:

Maximum Rated Gross Heat Input (MMBtu/hr): 49.00

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources): 1

Alternative Method to Demonstrate Control Apparatus is Operating Properly: NSR FOR BOILER - BLDG #2

Print Copy

Copy Batch Print Details Edit Details

Ready November 4, 2011 2:38 PM

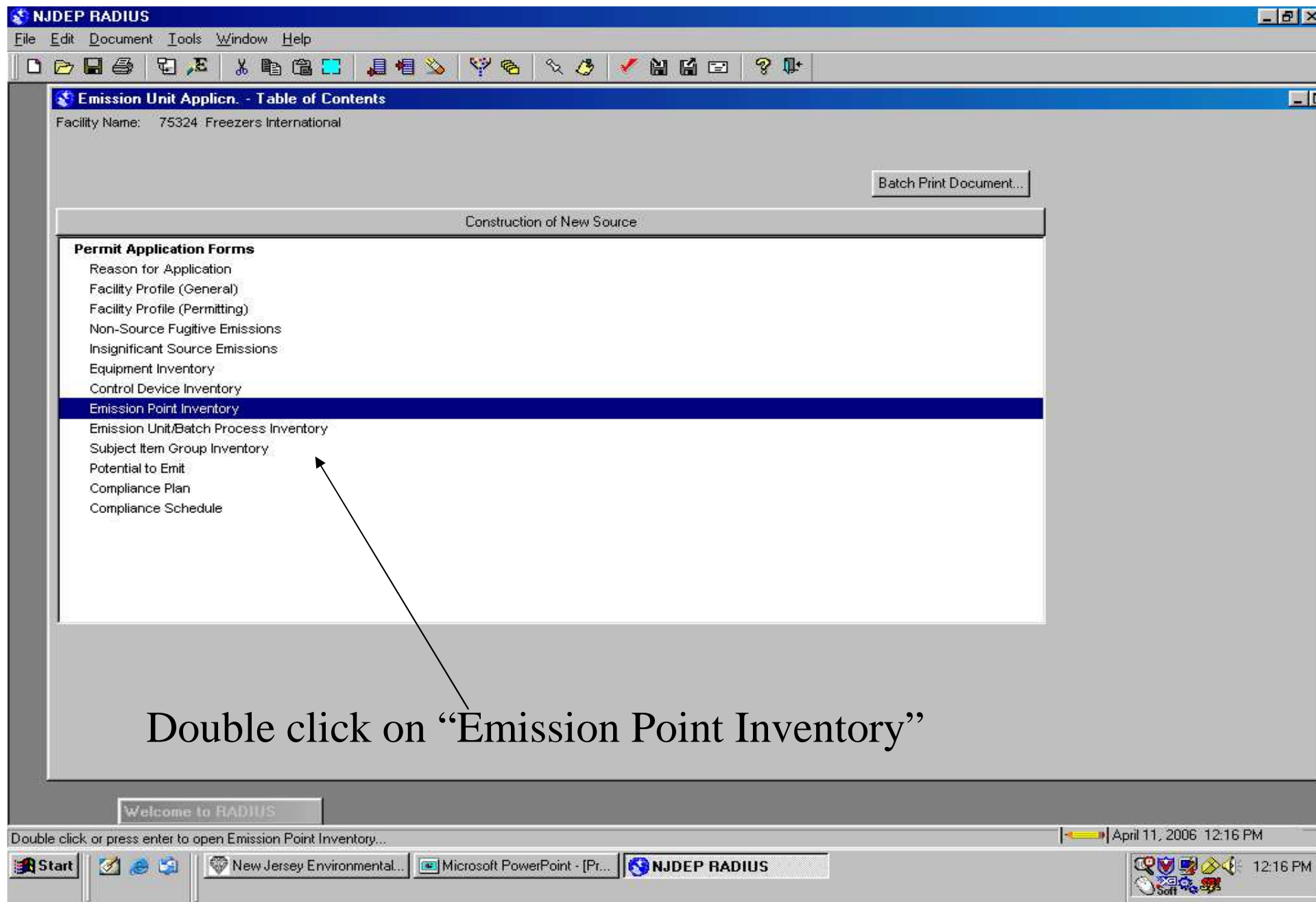
Start

5 Novell Gr... New Jersey E... 4 Adobe Re... 2 Windows ... Money video:... Microsoft Exc... Microsoft Po... NJDEP RAD... GroupWise N... untitled - Paint

2:38 PM Friday

Highlight control device row and select "edit details" to open the CD detail sheet. Enter all details.

Once the CD details are complete Click "OK"



NJDEP RADIUS

File Edit Document Tools Window Help

WilforCorporation - Emission Point Inventory

Facility: Renumber NJID...

PT NJID	Facility's Designation	PT Description	Configuration	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft.)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction
							Avg.	Min.	Max.	Avg.	Min.	Max.	
PT1	1	exhaust vent	Round	25	250	2,500	750.0	1,250.0	1,850.0	450.0	725.0	975.0	Up

Enter emission point details.

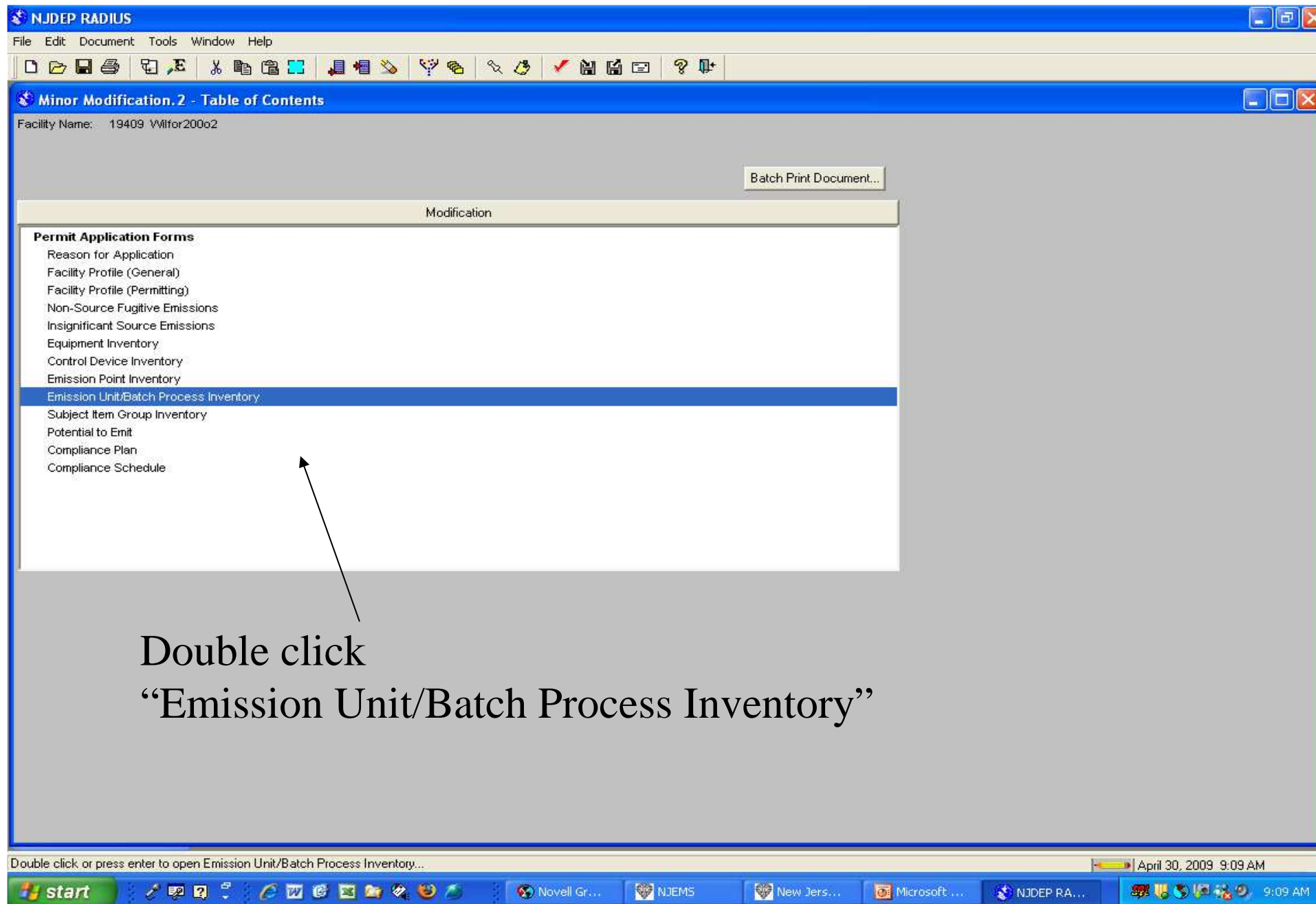
Equivalent Diameter:

Length: in. or Area: in.² Calculate Equivalent Diameter (Copy above)

and Width: in. Copy

Ready April 11, 2011 11:46 AM

Start Novell GroupWise - Mailbox New Jersey Environment... Microsoft Excel - Work Pl... D:\Documents and Settin... Microsoft PowerPoint - [...] **NJDEP RADIUS** 11:47 AM Monday



Double click
"Emission Unit/Batch Process Inventory"

WilforCorporation2011 - Emission Unit/Batch Process Inventory

Facility: 19409 WilforCorporation Type: ☒ U ☐ BP Renumber NJID...

Emission Unit Inventory

U NJID	Facility's Designation	U Description
U1	Bldg 2 -Blr	280 MMBTU/HR BOILER
U2	Bldg Oil	10,000 Gallons Oil Tank

Emission Unit Operating Scenarios

Two Emission Units.

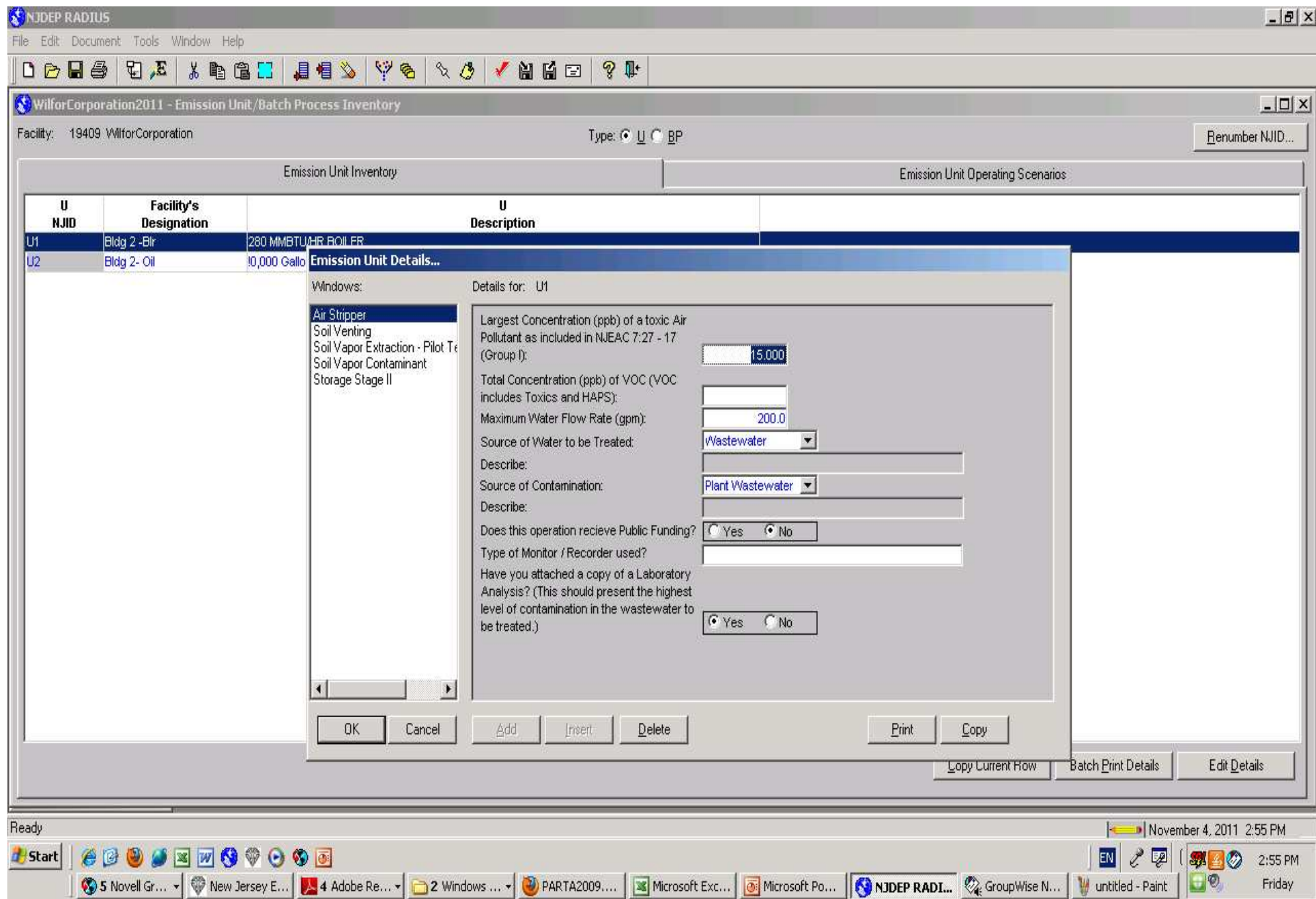
Select “each raw and enter the respective information”

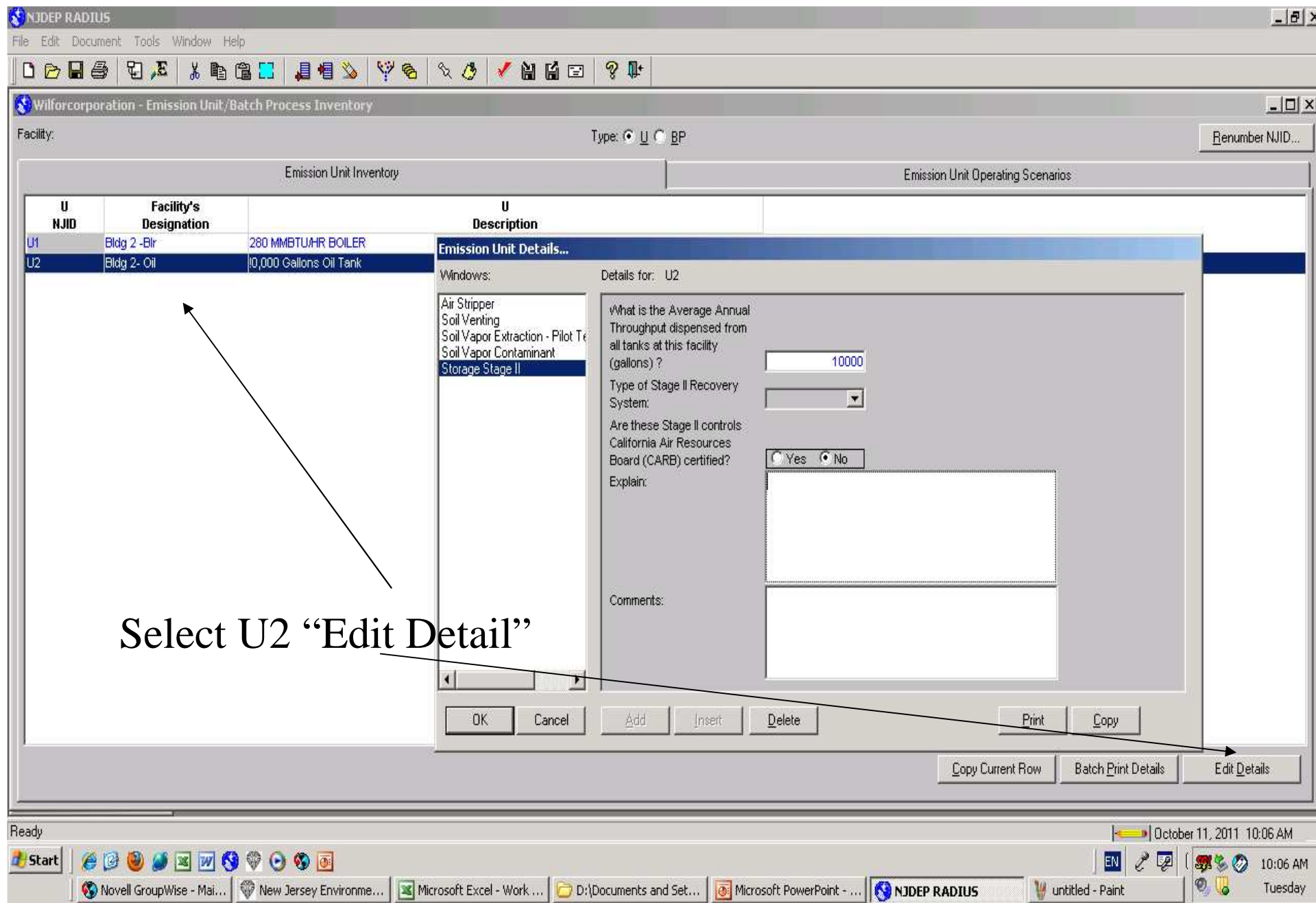
Select “Emission Unit Operating Scenarios” tab.

Copy Current Row Batch Print Details Edit Details

Ready November 4, 2011 2:47 PM

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NJDEP RADIUS

File Edit Document Tools Window Help

Wilforcorporation - Emission Unit/Batch Process Inventory

Facility: Type: ☒ U ☐ BP Renumber NJID...

Emission Unit Inventory

Emission Unit Operating Scenarios

NJID/Facility's Designation Description

U: **U1 Bldg 2 -Bldg** 280 MMBTU/HR BOILER

UOS NJID	Facility's Designation	UOS Description	Operation Type	Significant Equipment	Control Device(s)	Emission Point(s)	SCC(s)	Annual Operating Hours		VOC Range
								Min.	Max.	
OS1	GAS -BOILER	280 MMBTU/HR BOILER BURNING NATURAL GAS	Normal - Steady State	E1		PT1	1-02-006-01	0.0	8,760.0	
OS2	OIL - BOILER	280 MMBTU/HR BOILER BURNING #2 FUEL OIL	Normal - Steady State	E1		PT1	1-02-005-01	0.0	8,760.0	

Double click to open CD and PT fields.

Emission unit 1 (U1) has two operating scenarios.
Enter all information.

Jump to PTE Copy Current Row Batch Print Details Edit Details

Ready | October 11, 2011 11:32 AM

Start | 2 Novell Grou... | New Jersey Env... | Microsoft Excel ... | D:\Documents a... | Microsoft Power... | **NJDEP RADIUS** | untitled - Paint | Nestle.pdf - Ad... | GroupWise Notify | 11:33 AM Tuesday

NJDEP RADIUS

File Edit Document Tools Window Help

Willforcorporation - Emission Unit/Batch Process Inventory

Facility: Type: ☒ U ☐ BP Renumber NJID...

Emission Unit Inventory

NJID/Facility's Designation

U: U1 Bldg 2 -Blr 280 MMB

UOS NJID	Facility's Designation	
OS1	GAS - BOILER	280 MMB
OS2	OIL - BOILER	280 MMB

Emission Unit Operating Scenario Details...

Windows: Details for: OS2

Primary Fuel

Is this fuel a blend? No

Fuel Category: Commercial

Fuel Type: #2 fuel oil

Description (if other):

Amount of Sulfur in Fuel (%): 0.30

Amount of Ash in Fuel (%):

Fuel Heating Value: 14,000.00

Units: BTU/gal

Estimated Maximum Amount of Fuel Burned Annually: 130,000.00

Units: gal/yr

Estimated Actual Amount of Fuel Burned Annually: 130,000.00

Units: gal/yr

Amount of Oxygen in Flue Gas (%):

Amount of Moisture in Flue Gas (%):

OK Cancel Add Insert Delete Print Copy

Emission Unit Operating Scenarios

Annual Operating Hours		VOC Range
Min.	Max.	
0.0	8,760.0	
0.0	8,760.0	

Copy Current Row Batch Print Details Edit Details

Jump to PTE

Ready October 11, 2011 12:22 PM

Start 3 Novell Gr... New Jersey E... Microsoft Exc... D:\Document... Microsoft Po... NJDEP RADL... untitled - Paint Nestle.pdf - ... GroupWise N... NJDEP Air Qu... Tuesday 12:22 PM

Highlight row OS2, select "edit details" and enter data.

NJDEP RADIUS

File Edit Document Tools Window Help

Willforcorporation - Emission Unit/Batch Process Inventory

Facility: Type: ☒ U ☐ BP Renumber NJID...

Emission Unit Inventory

NJID/Facility's Designation

U: U2 Bldg 2- Oil 10,000 Ga

UOS NJID	Facility's Designation	
OS1	OIL TANK	10,000 O

Emission Unit Operating Scenario Details...

Windows: Details for: OS1

Storage Vessel Content

Content Name: #2 Fuel oil

CAS Number: 68476-30-2

Is the Content Under Pressure?

Pressure (PSIG):

Physical State: Liquid

Estimated Average Working Volume:

Units: gallons

Density of Contents:

Units: lb/gal

Estimated Minimum Storage Temperature (deg F): 5.000

Estimated Maximum Storage Temperature (deg F): 90.000

Estimated Average Storage Temperature (deg F): 47.000

Does the Content Contain VOCs?: No

Organic Density:

OK Cancel Add Insert Delete Print Copy

Emission Unit Operating Scenarios

Annual Operating Hours		VOC Range
Min.	Max.	
0.0	1,500.0	

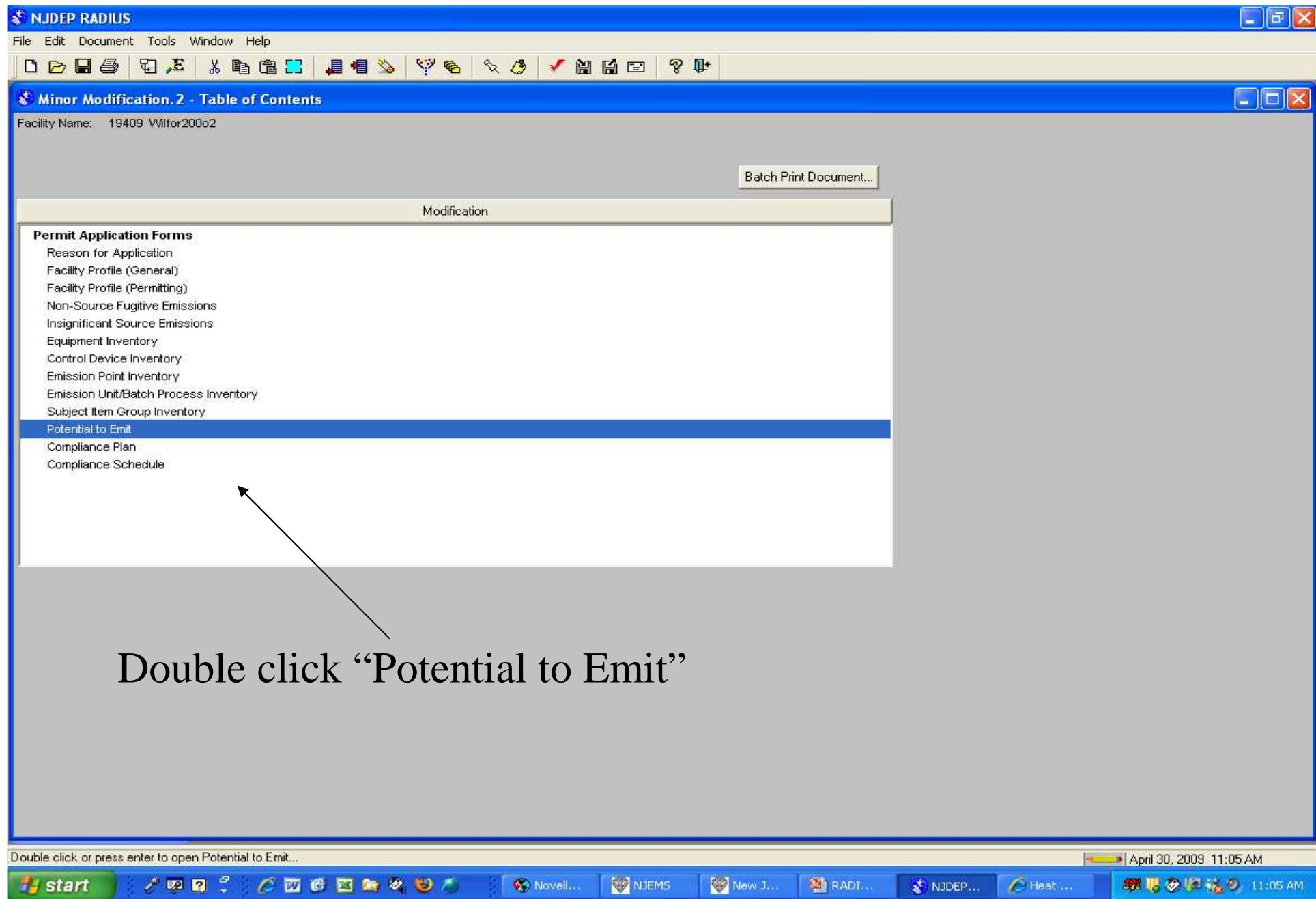
Copy Current Row Batch Print Details Edit Details

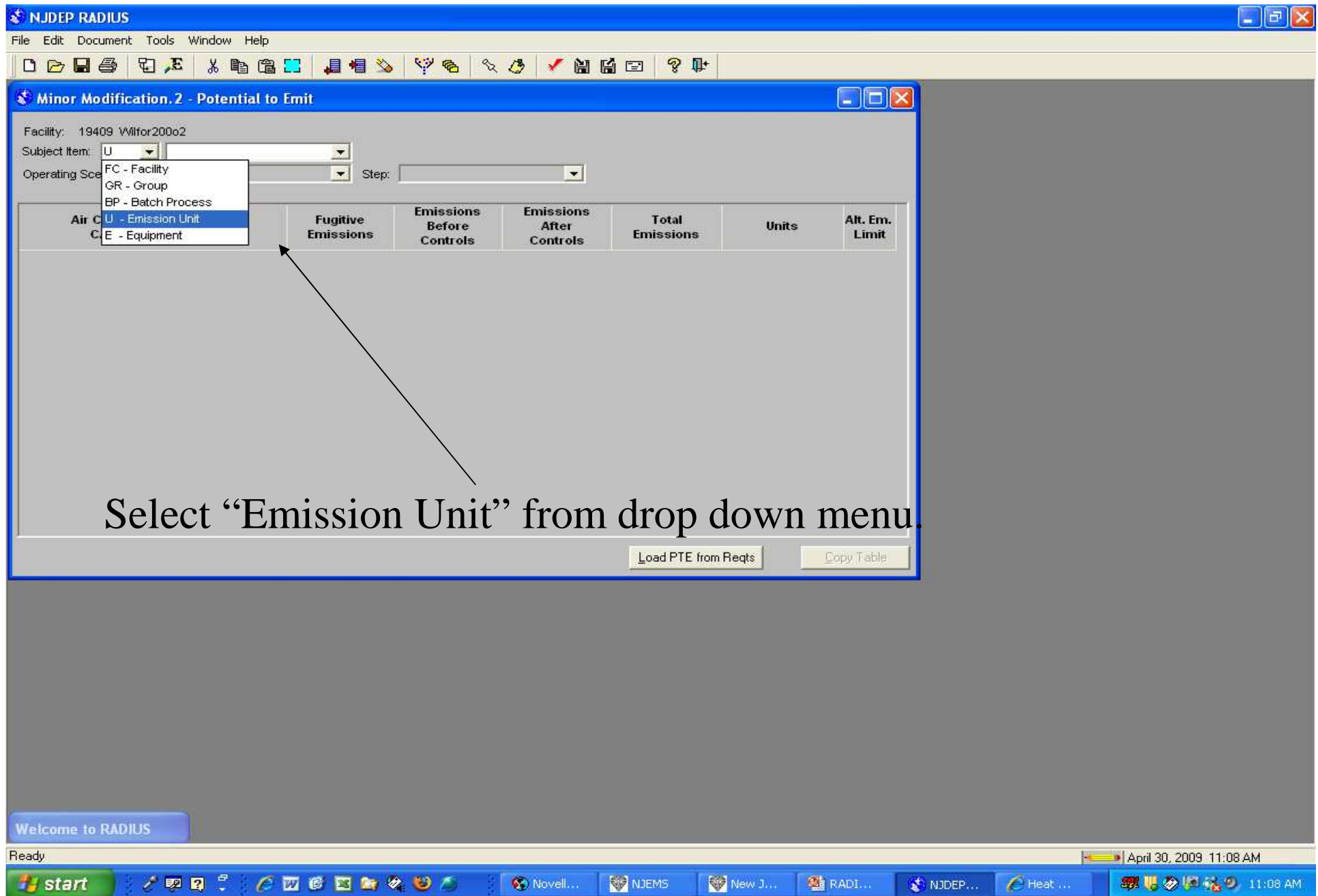
Jump to PTE

Ready | October 11, 2011 1:21 PM

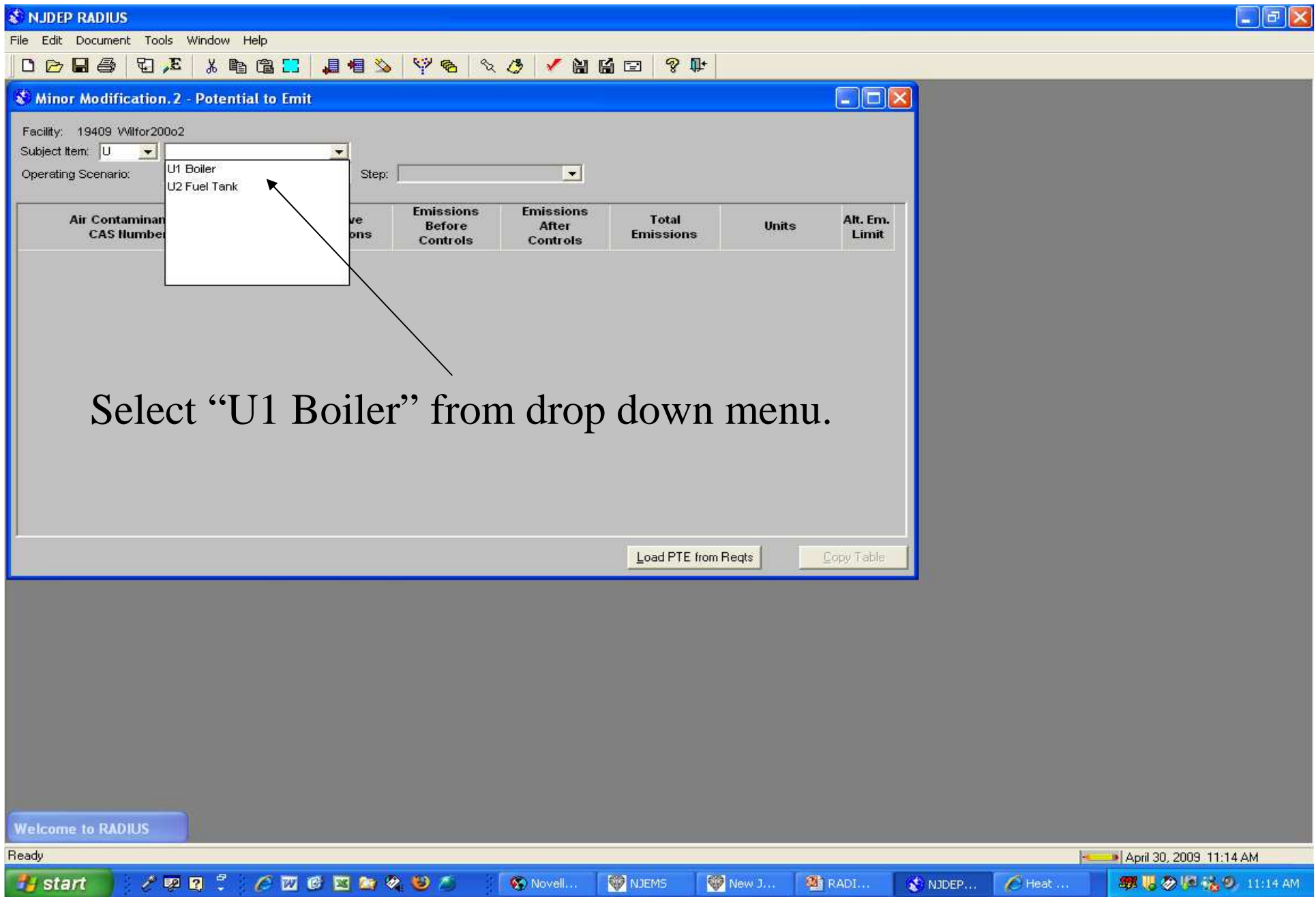
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Highlight row U2-OS1, select “edit details” and enter data.





Select "Emission Unit" from drop down menu.



NJDEP RADIUS

File Edit Document Tools Window Help

Wilforcorporation - Potential to Emit

Facility:

Subject Item: U U1 Bldg 2 -Blr

Operating Scenario: OSO Summary Step:

Air Contaminant Category/ CAS Number (HAPs)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO			1.300000000000	1.300000000000	tons/yr	No
HAPs (Total)					tons/yr	No
NOx (Total)			9.450000000000	9.450000000000	tons/yr	No
Pb					tons/yr	No
PM-10 (Total)			0.475000000000	0.475000000000	tons/yr	No
SO2			40.420000000000	40.420000000000	tons/yr	No
TSP			1.900000000000	1.900000000000	tons/yr	No
VOC (Total)			1.000000000000	1.000000000000	tons/yr	No

Select "U1-OS1 & OS2 Boiler" from drop down menu.
And enter the lb/hr emissions

Load PTE from Reqs Copy Table

Welcome to RADIUS

Ready October 11, 2011 2:00 PM

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NJDEP RADIUS

File Edit Document Tools Window Help

WilforCorporation2011 - Potential to Emit

Facility: 19409 WilforCorporation

Subject Item: U U1 Bldg 2 -Blr

Operating Scenario: OS1 GAS -BOILER OS0 Summary Step:

Air Contaminant CAS Number

CO

HAPs (Total)

NOx (Total)

Pb

PM-10 (Total)

SO2

TSP

VOC (Total)

Emissions Before Controls

Emissions After Controls

Total Emissions

Units

Alt. Em. Limit

5.290000000000 5.290000000000 lb/hr No

37.800000000000 37.800000000000 lb/hr No

0.660000000000 0.660000000000 lb/hr No

0.080000000000 0.080000000000 lb/hr No

0.660000000000 0.660000000000 lb/hr No

4.000000000000 4.000000000000 lb/hr No

Load PTE from Reqs Copy Table

Welcome to RADIUS

Ready November 18, 2011 11:15 AM

Start

New Jersey Environme... Microsoft Excel - Work ... D:\Documents and Set... F:\William\Enforcement... Novell GroupWise - Mai... Microsoft PowerPoint - ... NJDEP RADIUS

11:15 AM Friday

Select “Emission Unit 1- OS1” from drop down menu.
And follow the same procedure as with U1 – OS0 before

NJDEP RADIUS

File Edit Document Tools Window Help

Minor Modification.2 - Potential to Emit

Facility: 19409 Wilfor200o2

Subject Item: U U2 Fuel Tank

Operating Scenario: OSD Summary Step:

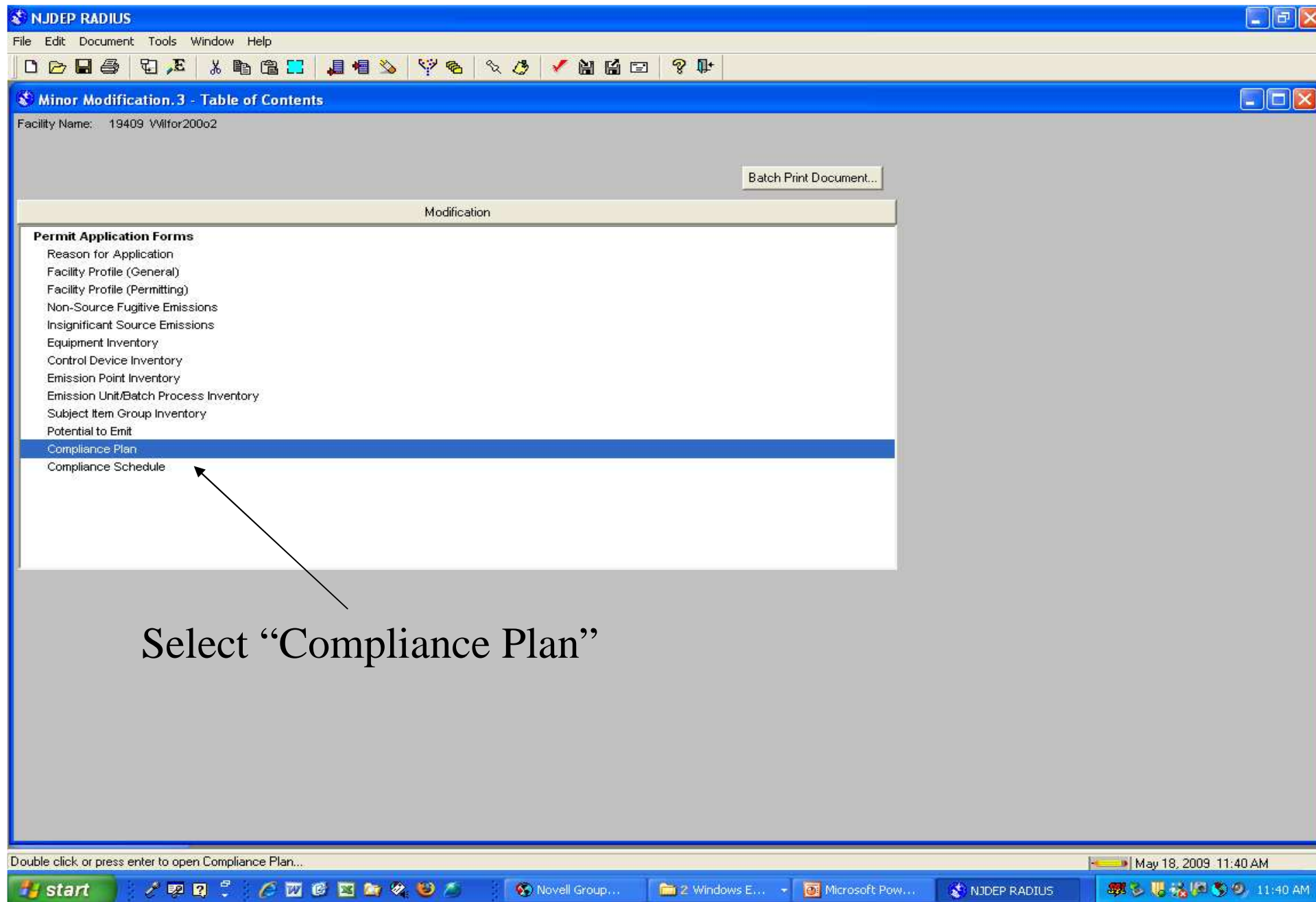
Air Contaminant Category/ CAS Number (HAPs)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO					tons/yr	No
HAPs (Total)			0.500000000000	0.500000000000	tons/yr	No
NOx (Total)					tons/yr	No
Pb					tons/yr	No
PM-10 (Total)					tons/yr	No
SO2					tons/yr	No
TSP					tons/yr	No
VOC (Total)			4.800000000000	4.800000000000	tons/yr	No
Toluene			0.020000000000	0.020000000000	tons/yr	No

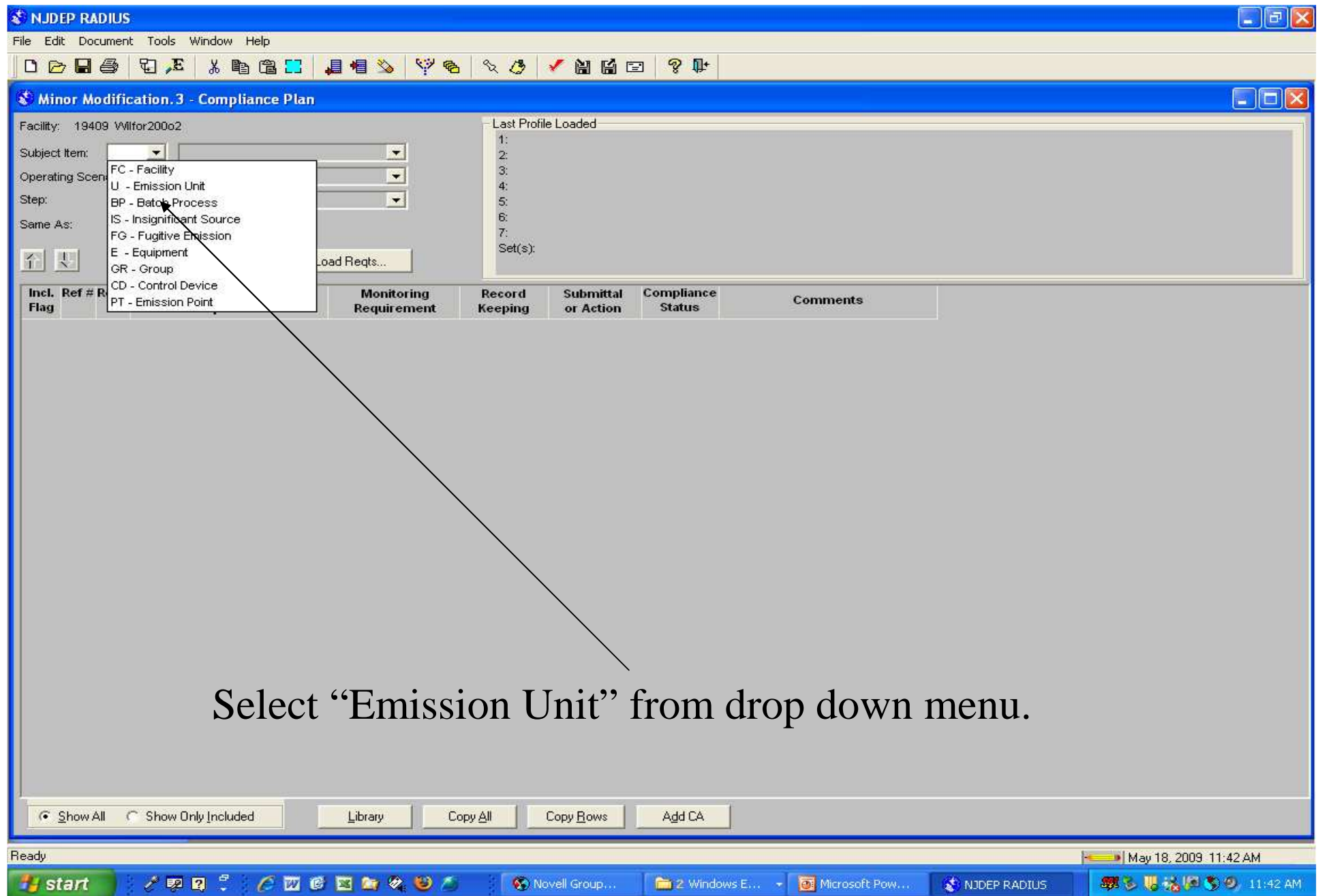
Select "Emission Unit 2" from drop down menu.
And follow the same procedure as with U1 before

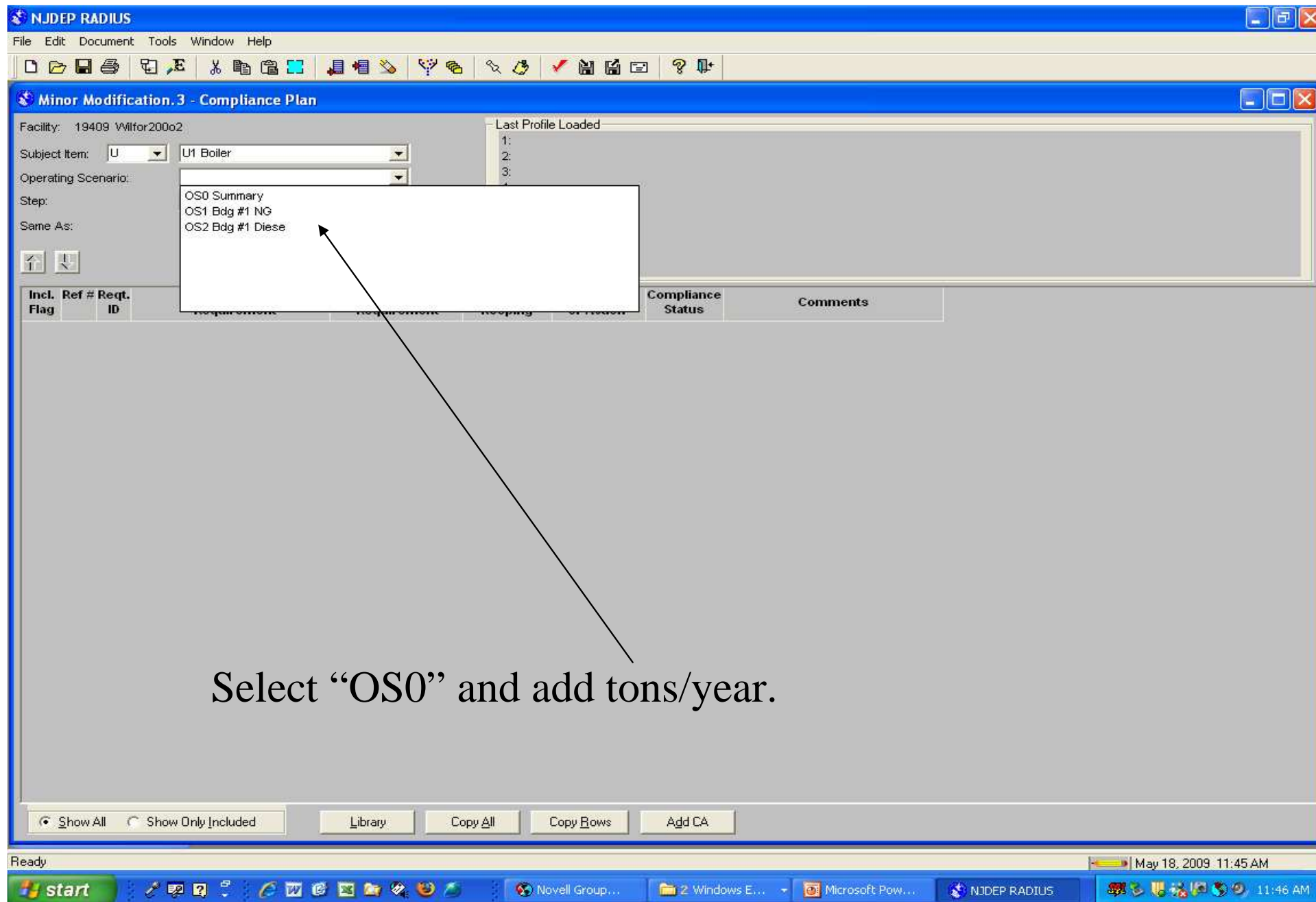
Load PTE from Reqs Copy Table

Welcome to RADIUS

Ready April 30, Thursday, April 30, 2009 12:01 PM







NJDEP RADIUS

File Edit Document Tools Window Help

WilforCorporation2011 - Compliance Plan

Facility: 19409 WilforCorporation

Subject Item: U U1 Bldg 2 -Blr

Operating Scenario: OS0 Summary

Step: []

Same As: []

Change Profile and Load Reqs...

Last Profile Loaded

- 1: Equipment (EQ)
- 2: Operating Permit - Sources with a PC Permit
- 3: Boiler, Non-Utility
- 4: >250 MMBTU/hr
- 5:
- 6:
- 7:

Set(s):

Incl. Flag	Ref #	Req. ID	Applicable Requirement	Monitoring Requirement			Record Keeping		Submittal or Action		Compliance Status	Comments
<input checked="" type="checkbox"/>	2	2	Specify rate as determined using Table at 7:27- 4.2(a). If a more stringent limit determined from	C000	D000	I000	G000	D000	J000	F000	1	
<input checked="" type="checkbox"/>	3	3	Specify limit based on name tag listed maximum gross heat input. Maximum Gross Heat Input <=								1	
<input checked="" type="checkbox"/>	4	4	Option 1 of 2: Comply with emission limit. If a more stringent limit determined from SOTA, RACT,	C002	D012	I007	G011	D012	J022	F006	1	
<input checked="" type="checkbox"/>	5	5	Option 1 of 2: Comply with emission limit. If a more stringent limit determined from SOTA, RACT,	C001	D080	I066	G005	D080	J021	F006	1	
<input checked="" type="checkbox"/>	6	6	Option 1 of 2: Comply with emission limit. If a more stringent limit determined from SOTA, RACT,	C000	D000	I000	G000	D000	J000	F000	1	
<input checked="" type="checkbox"/>	7	7	Option 2 of 2: Specify facility-specific VOC limit proposed in facility Alternative VOC Control	C002	D012	I007	G011	D012	J022	F006	1	
<input checked="" type="checkbox"/>	8	8	Option 2 of 2: Specify facility-specific VOC limit proposed in facility Alternative VOC Control	C001	D080	I066	G005	D080	J021	F006	1	

Show All Show Only Included Library Copy All Copy Rows Add CA

Select "OS0" and add emissions tons/year, and rules that apply to all OSs.

Ready November 4, 2011 3:05 PM

Start 5 Novell Gr... New Jersey E... 4 Adobe Re... 2 Windows ... PARTA2009... Microsoft Exc... Microsoft Po... NJDEP RAD... GroupWise N... untitled - Paint Friday

NJDEP RADIUS

File Edit Document Tools Window Help

Minor Modification.3 - Compliance Plan

Facility: 19409 Wlfor200o2

Subject Item: U U1 Boiler

Operating Scenario: OS1 Bdg #1 NG

Step: OS0 Summary
OS1 Bdg #1 NG
OS2 Bdg #1 Diese

Same As:

Last Profile Loaded

- 1: Emission Unit Operating Scenario (UOS)
- 2: Operating Permit - Sources with a PC Permit
- 3: Boiler, Non-Utility

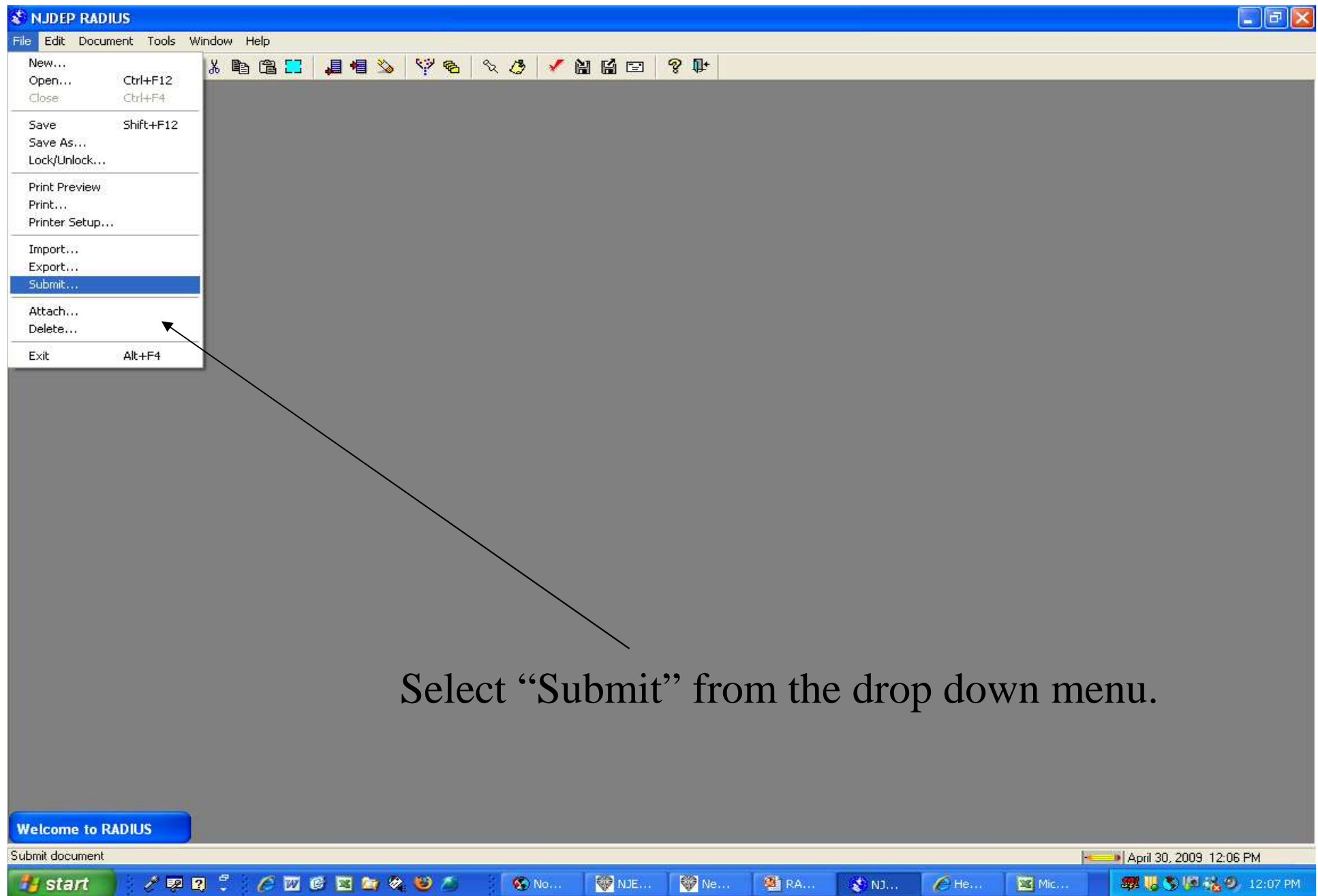
Incl. Flag	Ref #	Req. ID	Requirement	Compliance Status	Comments
<input checked="" type="checkbox"/>	1	1	If a more stringent limit determined from SOTA, RACT, BACT or LAER analysis, include additional limit	1	
<input checked="" type="checkbox"/>	2	2	Select most stringent limit determined from SOTA, RACT, BACT or LAER analysis. Particulate	1	
<input checked="" type="checkbox"/>	3	3	Select most stringent limit determined from SOTA, RACT, BACT or LAER analysis. VOC	1	
<input checked="" type="checkbox"/>	4	4	Select most stringent limit determined from SOTA, RACT, BACT or LAER analysis. CO <=	1	
<input checked="" type="checkbox"/>	5	5	Select most stringent limit determined from SOTA, RACT, BACT or LAER analysis. SO2 <=	1	
<input checked="" type="checkbox"/>	6	6	Select most stringent limit determined from SOTA, RACT, BACT or LAER analysis. NOx	1	
<input checked="" type="checkbox"/>	7	7	Option 1 of 2: Specify limit used as basis for determining annual emission limits. Hours of Operation	1	
<input checked="" type="checkbox"/>	8	8	Option 2 of 2: Specify limit used as basis for determining annual emission limits. NOTE: There are 2	1	
<input checked="" type="checkbox"/>	9	9	Option 2 of 2: Specify limit used as basis for determining annual emission limits. NOTE: There are 2	1	
<input checked="" type="checkbox"/>	10	10	Option 1 of 2: If a more stringent limit determined from SOTA, RACT, BACT or LAER analysis, include	1	

☒ Show All
 ☐ Show Only Included
 Library Copy All Copy Rows Add CA

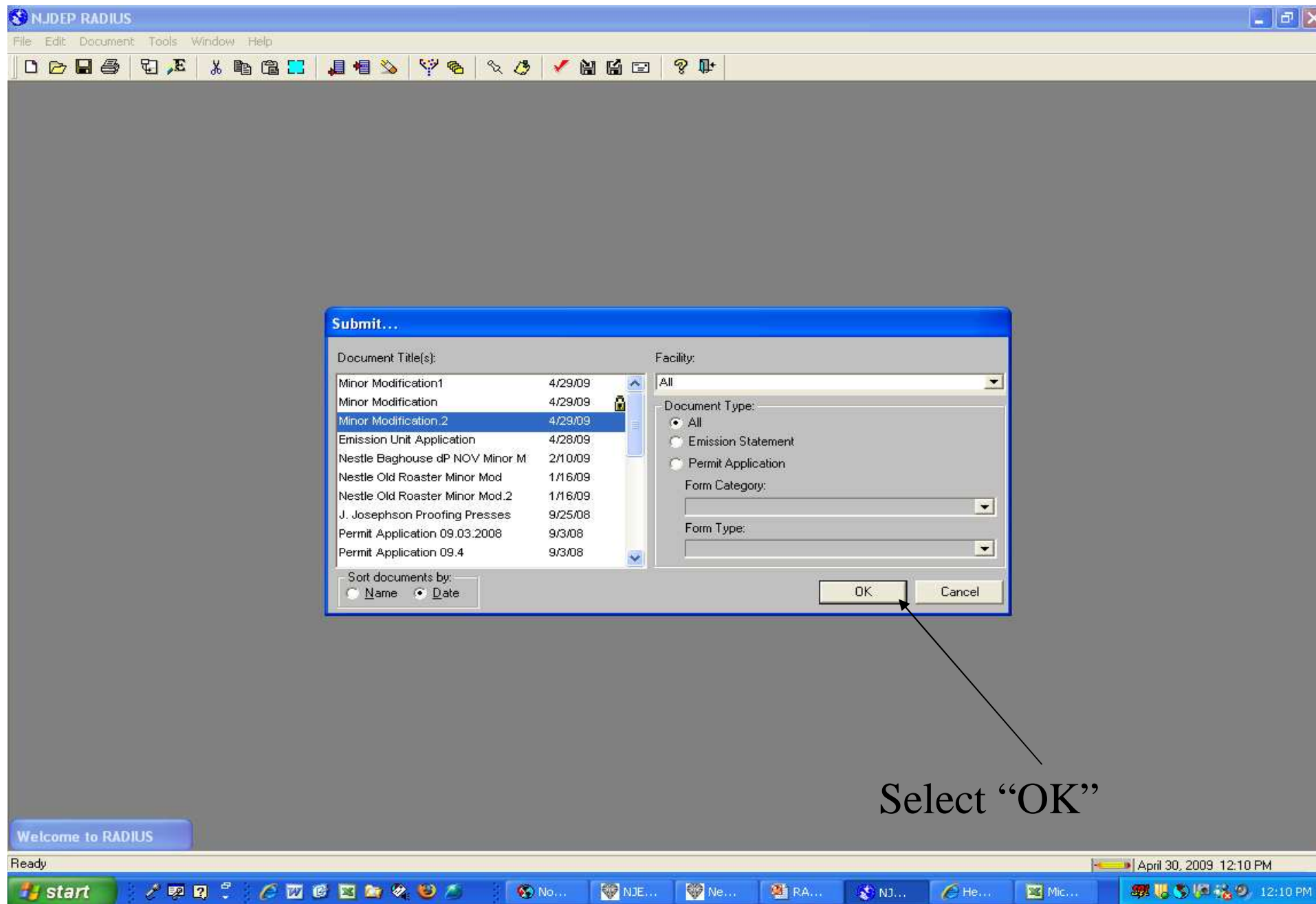
Ready May 18, 2009 11:55 AM

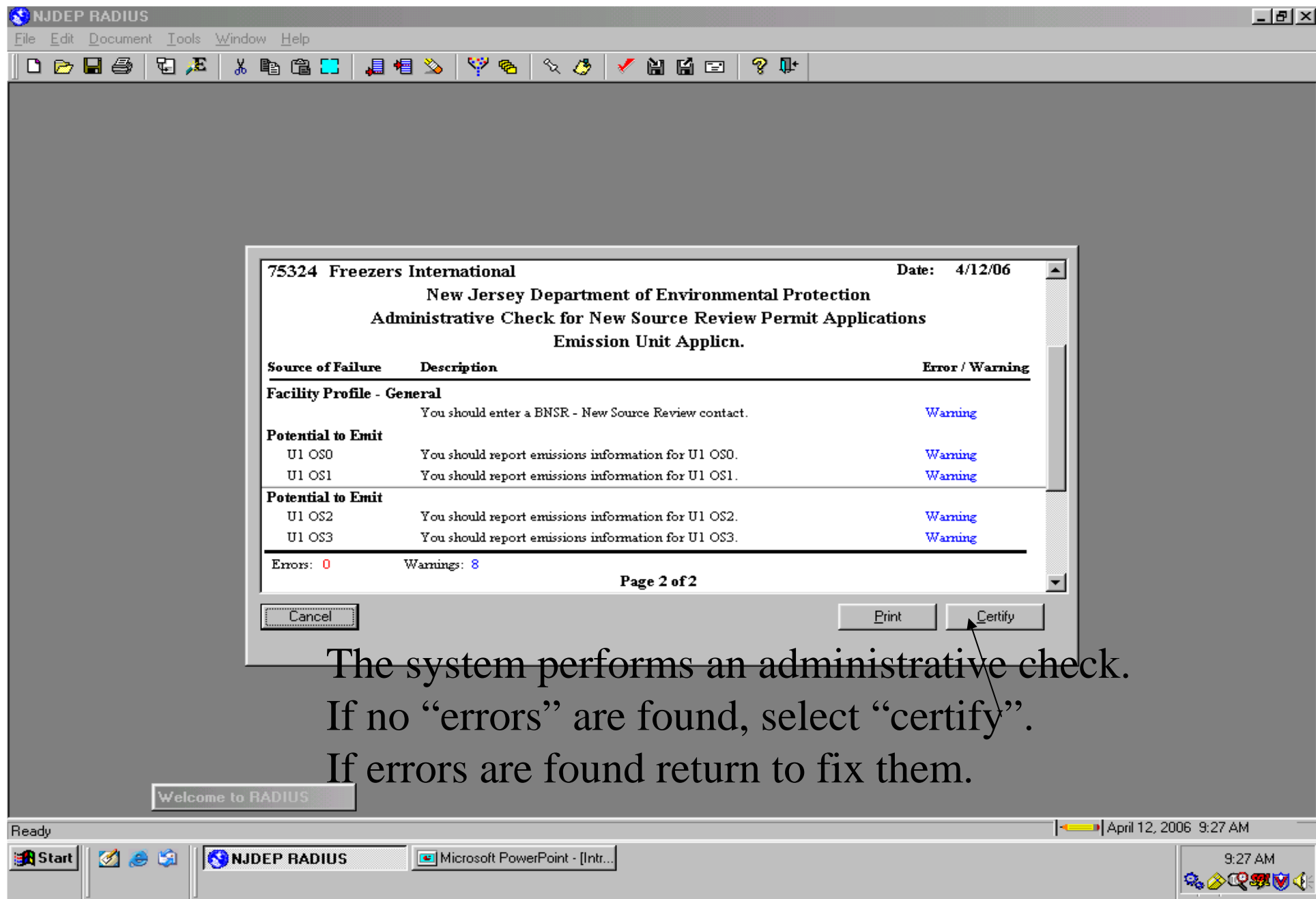
start Novell Group... 2 Windows E... Microsoft Pow... NJDEP RADIUS 11:56 AM

Select "OS1" and add emissions Lb/hr, and rules that apply to each OS individually.

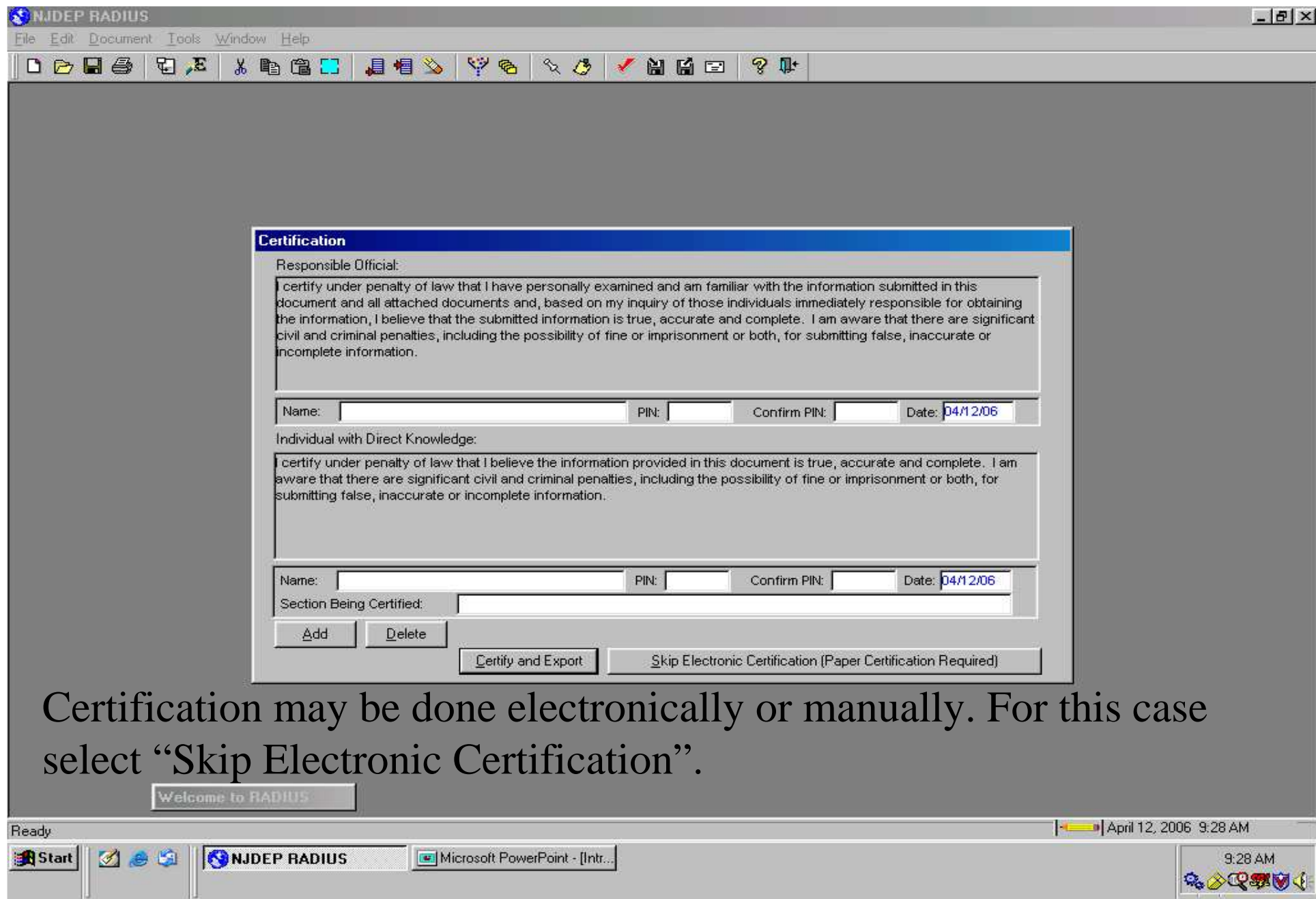


Select "Submit" from the drop down menu.

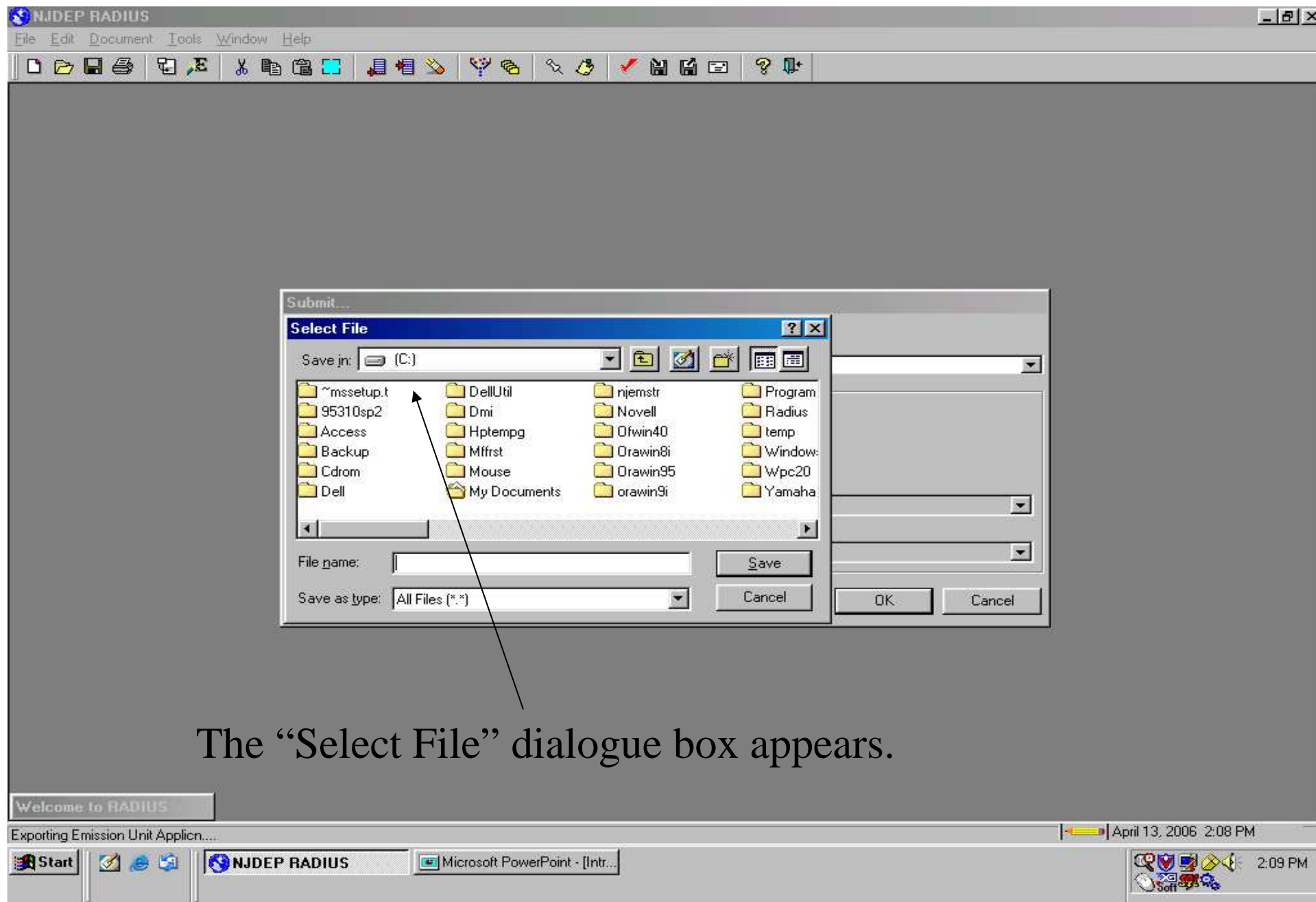




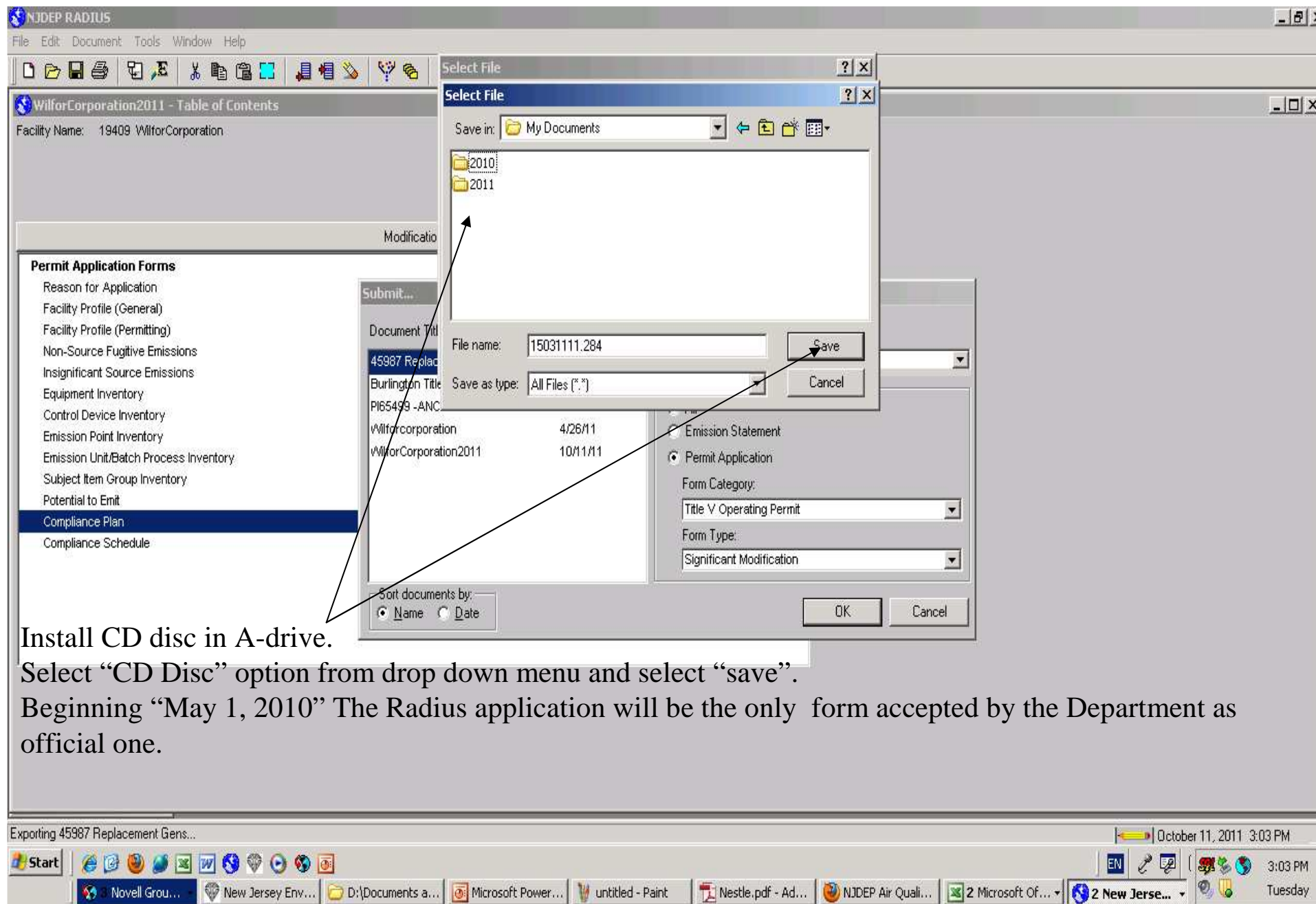
The system performs an administrative check.
If no "errors" are found, select "certify".
If errors are found return to fix them.



Certification may be done electronically or manually. For this case select “Skip Electronic Certification”.



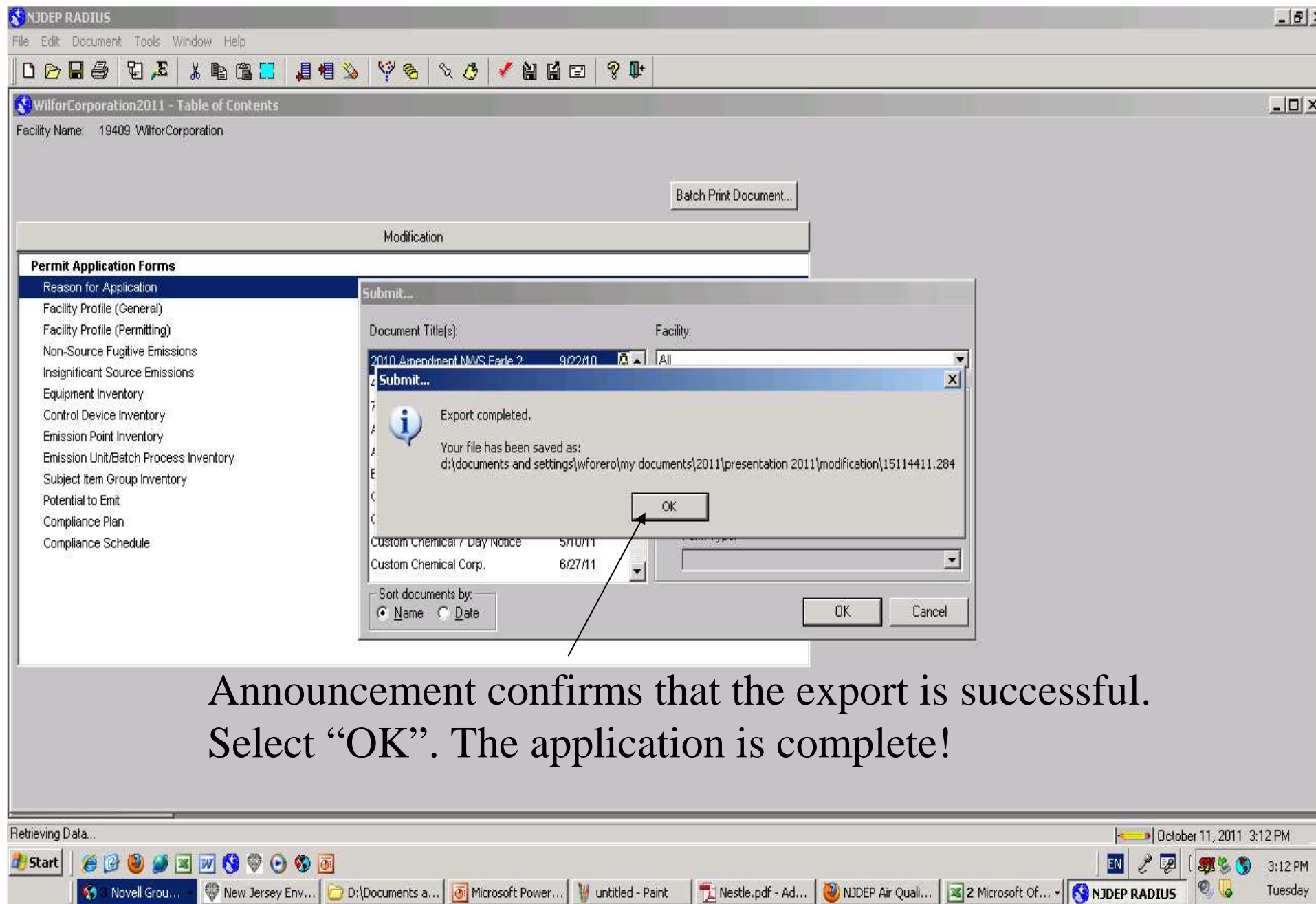
The “Select File” dialogue box appears.



Install CD disc in A-drive.

Select “CD Disc” option from drop down menu and select “save”.

Beginning “May 1, 2010” The Radius application will be the only form accepted by the Department as official one.



Announcement confirms that the export is successful.
Select "OK". The application is complete!

Tips



- In an Emission Unit, an operating scenario can consist of multiple emission points and control devices, but only 1 piece of equipment
- Insignificant sources and non-source fugitive sources are only specified for Title V operating permits
- In the Emission Unit Operating Scenario screen, double-click the Control Device, Emission Point, and SCC fields to enter data

More Tips

- The File\Submit command does not electronically transfer the file to DEP
 - Copy the file to CD-ROM and mail it to DEP
 - Permit modifications must only include the data that is being added or changed
 - Don't submit an edited version of the full permit application
 - Electronic code of Federal regulations - <http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&tpl=%2Findex.tpl>

QUESTIONS...?

